

MIST and DRUGGIST

AUGUST 26, 1944

The



CHEMIST AND DRUGGIST

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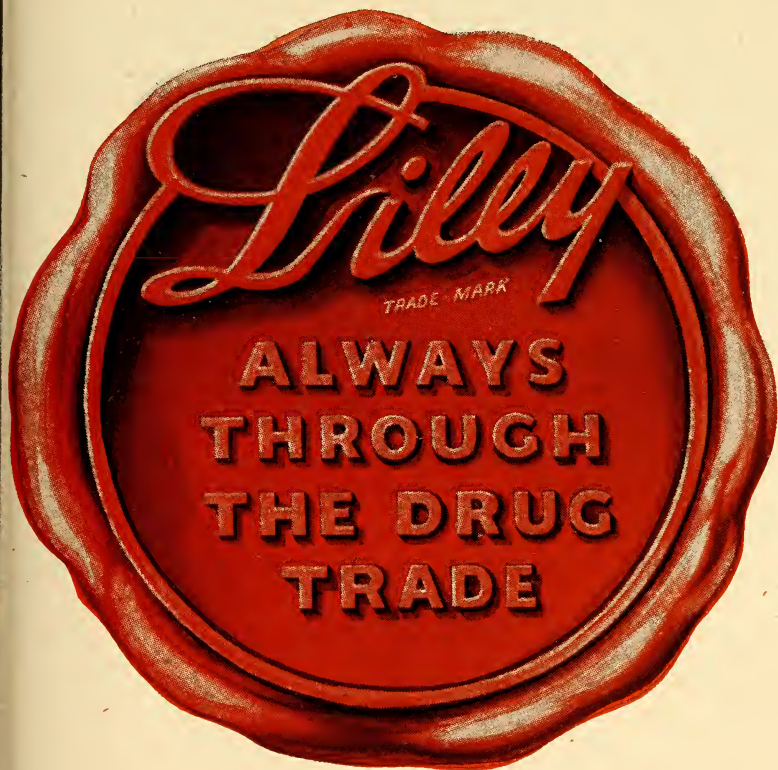
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XLII

AUGUST 26, 1944

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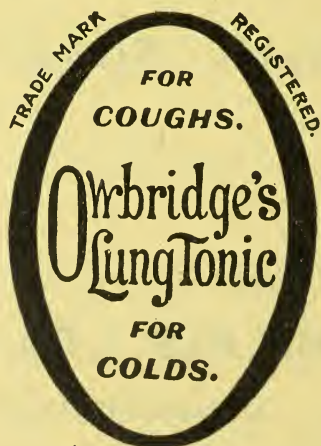
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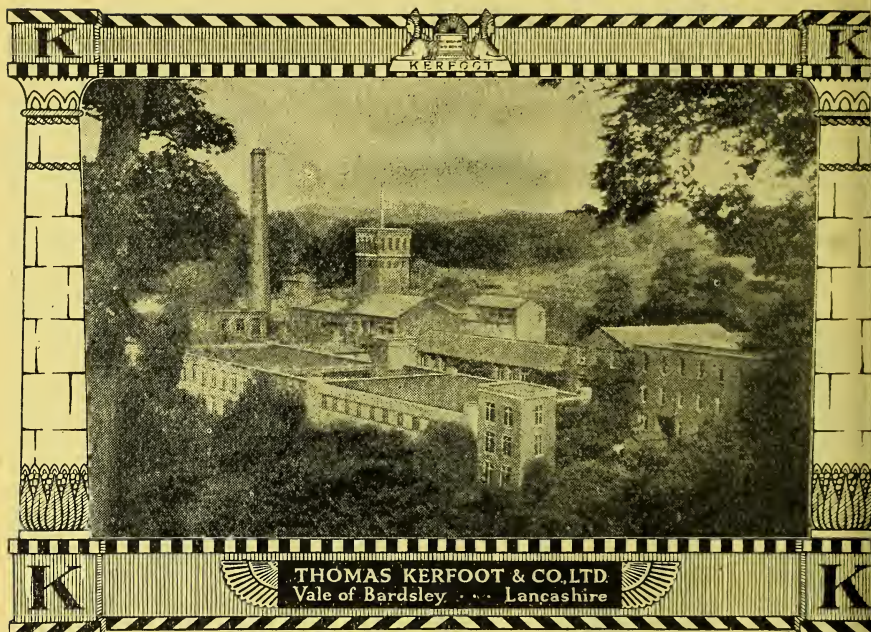
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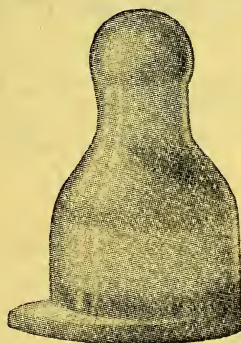
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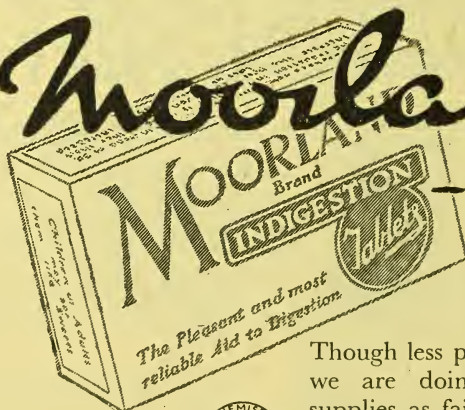
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MY LADY'S VANISHING CREAM

For loveliness and charm—Delicately perfumed.

Setting Lotion, Solid Brilliantine, Brilliantine,

Cold Cream, Cleansing Cream, Antiseptic Balm.

LABELS FOR THESE LINES—6/- per gross.

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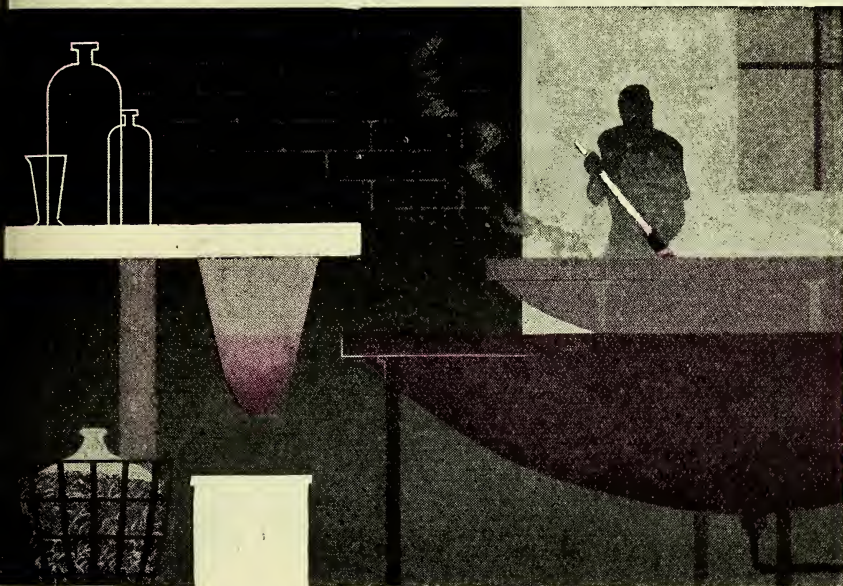
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Established 1833*Filtering operation at our Wharf Road Works.*

Galenicals — For more than 100 years

StaffAllenS have been making reliable galenical preparations for pharmacists. Just as in the early days the founders of this firm did real service by supplying drugs free from the then common adulterants, so now by the most up-to-date scientific control StaffAllenS maintain an irreproachable standard in their powdered drugs, liquid and solid extracts, tinctures and other galenicals. For these essential materials leading Manufacturing Chemists and Wholesale Druggists now as always rely on —

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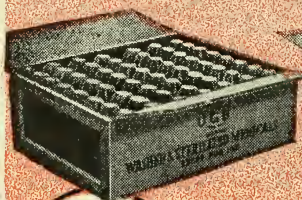
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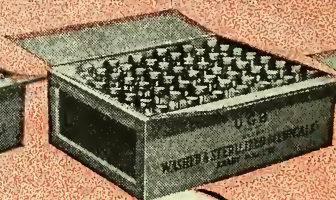


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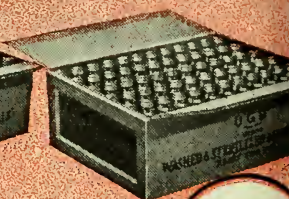
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 THE IDEAL
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*The Largest Manufacturers of Glass Bottles
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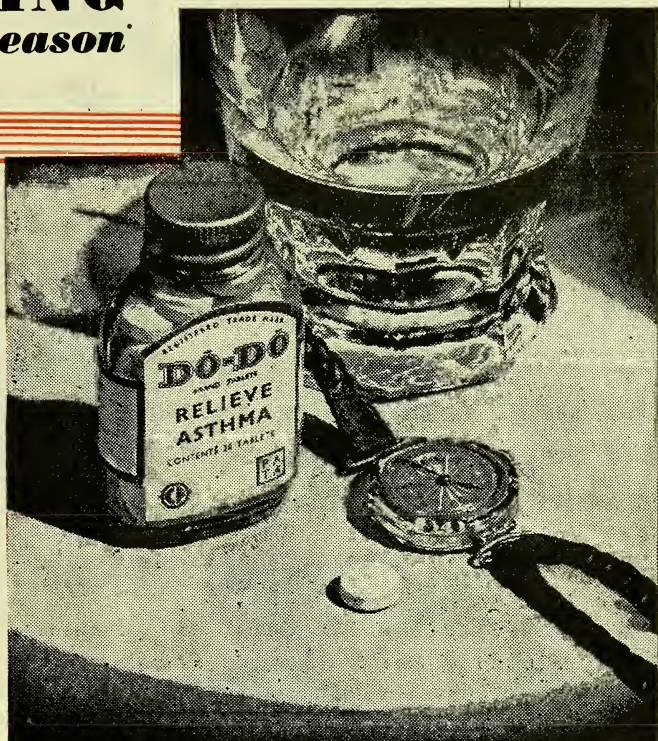
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Nothing ever happens without reason. Do-Do Asthma Tablets give relief from spasm in 30 seconds, **because** they provide medicaments in a combination found in no other asthma remedy. Chemists recommend Do-Do Tablets **because** they know that the formula is so excellent. Do-Do has the highest sale of any Asthma Tablet in the world **because** to the satisfaction of the public is allied the goodwill of the Chemist.



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P.A.T.A.



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The majority of readers of this journal know as a fact of personal experience the steadily increasing demand for SEROCALCIN and they know the reason for it. This announcement is written for the minority . . .

SEROCALCIN SELLS ON RESULTS

The common cold probably occasions a greater National loss of time and efficiency than any other single cause.

Serocalcin has proved the most efficient means of reinforcing the body's natural defences.

In some 80% of cases immunity of three to four months' duration follows a prophylactic course consisting of two tablets daily for thirty consecutive days. There are

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Press and recommendations of previous customers are continuing

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**SUCCESS
IN OVER 80%
OF CASES**

PLACE YOUR ORDERS EARLY PLEASE!

SEROCALCIN PREVENTS COLDS

CELLON SERVICE

FOR INDUSTRIAL WELFARE

Control of Pediculosis Capitis

CELETANE

(Regd.)
Medicated (Lethane) Hair Oil—N.W.F.
(Lethane 384 Special and Refined Mineral Oil)

as recommended by the Ministry of Health.

The specific hitherto known as
"LETHANE OIL," Undetectable
in use. Rapidly effective, terminates
infection upon treatment.

For further information, sample and prices upon request

KINGSTON-ON-THAMES

KINGSTON 1234 (5 lines)

CELLON LABORATORIES

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UNLIMITED
SUPPLIES OF

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DIUROMIL AND RALGEX

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AVAILABLE

Supplies can be obtained at once
either from the wholesale houses or
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PHARMAX LTD.
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Dr. J. Collis Browne's Chlorodyne

and

The Pharmacy and Poisons Act, 1933

Dr. J. Collis Browne's CHLORODYNE

SALE RESTRICTED TO REGISTERED CHEMISTS

PURCHASER'S SIGNATURE NOT REQUIRED



Sole Proprietors:

J. T. DAVENPORT LTD.
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P.A.T.A.

30 lb. of Prime Lean Beef are required to produce 1 lb. of

WILSON'S EXTRACT OF BEEF

PURE AND CONCENTRATED

This Extract may be recommended to the public with every confidence as its purity makes it eminently suitable for invalids and those in failing health. It assists materially in the digestion of other foods and contains high tonic properties. Used regularly, it builds up protection against colds and influenza and is invaluable in the kitchen, canteen or hospital for the enrichment of soups, stews, gravies, etc., besides making delicious sandwiches.

Retail Jars, 1/-, 1/7d. and 2/2d.

Please let us send sample carton of 8 jars each for 30/5d. net, delivered.

Awarded the Certificate of the Royal
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WILSON MEATS LTD.

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HERE'S THE EXTRA nourishment ALL workers need...

Prepared in specially assimilable form and available in adequate supply, Jenner's offers a fine malted food proved invaluable for over 50 years for tired workers, invalid digestions, old people, nursing mothers and infants. **CAN BE MADE WITH HOUSEHOLD MILK.**



JENNER'S Malted food

Malt and Milk-
Chocolate Flavour

Retail Trade	
small size 1/6	14/4 per doz.
large size 2/8	25/6 "

SPLENDOR Ltd. 5, Beastmarket Hill,
Nottingham, & 7c, Lower Belgrave St., London, S.W.1

YOU'VE BEEN ASKED FOR THESE

Maroon
Emerald
Silver
Grey
Cinnamon

4 NEW TINTEX SHADES

HERE THEY ARE — four new Tintex Colours suitable for all materials. They will find a ready welcome with your customers. There are 16 other shades in the Tintex Range including Pink, Ecru and Peach for lingerie and all light fabrics.

Tintex

Tints as you rinse

RETAILING AT
6d
PACKET

WHITE WONDER BLUEING for woollens, silks and textiles. Also TINTEX Stocking Dyes in 4 shades: Carib, Newmarket, Mist Beige and Vogue. Both retail in 4d. packets. Send for Trade Terms and Tintex Shade Card.

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Sole Distributors to Chemists: T. CHRISTY & CO., LTD.
Old Swan House, 3, Castle Street, Farnham, Surrey.



Astringent & Antiseptic,
a soothing lotion for
customers seeking relief
for their eyes. Supplies
available from qualified
C. F. Wholesalers.

Brontalene

EYE LOTION

prices:

18/- per doz. Purchase Tax 3/- per doz.
Bonus scheme for 1 gross.
Retail Price including P.T. 2/6 per bottle.

Enquiries to **BRONTAN LTD.**,
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Phone BISHopsgate 7935

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POTTER & CLARKE Ltd 1812

Growers & Importers of Herbs, Roots & Barks. —

60-64 ARTILLERY LANE . LONDON E.1

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WAR-TIME MARKET NEWS

summarising war-time opportunities, special notices, new packaging and new products

THERE IS NOT SUFFICIENT

Beaulah's FAMOUS MALTED MILK

FOR ALL THE PEOPLE
WHO WANT IT

Our policy therefore is to distribute
all available supplies to our Chemist
Friends only

In two popular sizes only during
the war, 2/- & 4/-

J. & J. BEAULAH LIMITED,
BOSTON, LINCS.



A REPUTATION FOR RELIABILITY

"Sentinel"
SANI-TOWELS

Available in all popular sizes:

'SENTINEL' Nos. 1, 2, 3 and 'Maternity'
(all cotton-wool with loop ends)

also 'SENTINEL' Soluble

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KEEP YOUR
STOCKS UP

BOTH SIZES

3/11½ and 11/10

(Inclusive of Tax)

Wholesalers have Your Needs

TONICITY LABORATORIES LTD.
16 CEDARS ROAD LONDON, S.W.1

TOILET & COSMETIC • LABELS •

Hundreds of wordings in Stock
Designs — or specially designed
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WILLIAM SESSIONS, LTD.
Designers and Printers of Fine Labels
THE EBOR PRESS - YORK

RENOIDS

(Dr. Knox's Back and Kidney Pills)

NOW

AVAILABLE

IN

QUANTITY

9/- per doz.
plus Purchase Tax

Inclusive
Selling Price
1/3

JOHN KNOX

Cannon Street
HANLEY

Dean Street
BIRMINGHAM



**Eau de Cologne
and Beauty Aids**

BLUE AND GOLD LABEL
MADE IN ENGLAND

All enquiries to:—

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"4711" FACTORY, SLOUGH, BUCKS

PATA

'KEPLER'

brand

COD LIVER OIL WITH MALT EXTRACT

Price reduction

Increased demand has made possible a reduction in price. On and after 1st September 1944 retail prices of 'Kepler' Cod Liver Oil with Malt Extract and 'Kepler' Malt Extract will be:

LARGE BOTTLE, 5/9 SMALL BOTTLE, 3/3

OTHER PRICE CHANGES:

			Purchase Tax	
'Kepler' Cod Liver Oil with Malt Extract and Chemical Food	3/3	"	5d.	
'Kepler' Cod Liver Oil with Malt Extract		small 3/3	"	5d.
and Hypophosphites		large 5/9	"	8½d.
'Kepler' Cod Liver Oil with Malt Extract and Iron Iodide	3/3	"	5d.	
'Kepler' Malt Extract with Hæmoglobin	3/3	"	5d.	

The high standard of quality of 'Kepler' products remains unchanged.



BURROUGHS WELLCOME & CO.
(The Wellcome Foundation Ltd.)

LONDON

CREDIT

An announcement will shortly be made regarding Credit Claims which may be made for stock in hand on 1st September 1944.



*A flavoured and
seasoned pre-
paration of Beef
Extract and
Beef Protein.*



**STIMULATES
THE
DIGESTION
AIDS
NUTRITION
TONES UP THE
SYSTEM**

**DELICIOUS AND
APPETISING
AT ALL TIMES**

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P.A.T.A.

"MEDILAX"

Trade Mark Brand

Laxative Pellets

Meets the need for something more
persuasive than ordinary laxatives.
"Medilax" is imperative without
being discomforting and, unlike dras-
tic purgatives, does not induce a sub-
sequent state of constipation which
is often more acute than the first.

"Dr. JENNER'S ABSORBENT LOZENGES"

Trade Mark Brand

Digestive Tablets

Famous for 150 years for indigestion.

"MORYL"

Trade Mark Brand

Carbaminoylcholine Chloride

Powerful parasympathetic stimulant.
AMPOULES 3-10-100 TABLETS 20-50-250

"TETRONOX"

Trade Mark Brand

Reliable hypnotic and sedative.
10 & 100 TABLETS

MARTINDALE "E.S.T.P."

Trade Mark Brand

Ether-Soluble Tar Paste

An advance in coal tar therapy. Of
particular value in eczema in its
varied forms. 2-oz. and 16-oz.

MARTINDALE "STERULES"

Trade Mark Brand

Wide range of products for injection.

SQUIBB "QUINOLOR"

Trade Mark Brand

Compound Ointment

Tissue-repair promoting Antiseptic.
1-oz. and 16-oz.

Full details on request to:—

Savory & Moore Ltd.

Chemists to The King

Lawrence Road, Tottenham, N.15
or Wm. Martindale, 50 Wigmore Street, W.1





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For RETAILER — WHOLESALE — MANUFACTURER

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Telephone: Central 6565 (10 lines)

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Telephone: Bath 5492

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NEWS OF THE WEEK

Sweets Ration.—There is no change in the amount of the ration of chocolate and sweets or in the value of personal points coupons for ration period No. 2, which begins on August 20.

Commodity Insurance Scheme.—The Board of Trade has, with the approval of the Treasury, decided that in respect of the period beginning September 3, 1944, and ending December 2, 1944, the rate of premium payable under any policy under the Commodity Insurance Scheme shall continue to be at the rate of 5s. per cent. for three months (or 8s. 8d. per cent. per month).

Illegal Sale of Razor Blades.—At Coventry recently, Alfred Wilson, of 145 Alcester Road, Birmingham, a stallholder in the Coventry market, was fined a total of £9, with five guineas cost, for having offered razor blades for sale by retail at a price exceeding the permitted price on January 1, and for having failed to send a notice to the seller demanding an invoice, and not

having notified the Local Price Regulation Committee that he had no invoice. He pleaded guilty. Mr. G. W. Moore, prosecuting for the Board of Trade, said the defendant sold the blades at three for 1s. 3d. when the correct price is 1½d. each, including purchase tax. Defendant said he thought he was in order in charging fivepence a blade as other people were doing so.

Sir Stafford Cripps on Export Trade.—Sir Stafford Cripps, Minister of Aircraft Production, said at Belfast recently that the economic stability of Britain was a world concern to all who desired peace. He outlined three vital steps which must be taken in industry if Britain were to be one of the workshops of the post-war world. These were: Partnership of effort must be established between management and labour; factories must be rebuilt and re-equipped; and management must be professionalised. Exports must be increased to maintain the pre-war standard of living; to give a firm basis for this country's international position as a pillar of world peace;

and to provide for increased standards of education, health, housing, etc., which had been or were being planned. These exacting demands required a complete reconsideration of industrial methods.

Air-Letter Service Extensions.—The Postmaster-General announces that the six-penny air-letter service, which has hitherto been available only for communication with members of the Forces and the Merchant Navy overseas and with civilians in British West Africa, is now available for communications addressed to civilians in Empire and British mandated territories in Africa, Asia, and the Pacific. The principal countries concerned are: Australia, New Zealand, Union of South Africa, Southern Rhodesia, India, Ceylon, East Africa, and Palestine. The service will also extend to Malta, Egypt, Anglo-Egyptian Sudan, Iraq, and Iran. Particulars of other territories in Africa, Asia, and the Pacific to which the service will be available may be obtained at any post office. Concurrently with the introduction of the civilian air-letter service, the postage rate for airgraph messages for civilian addresses in all countries, including countries mentioned above, to which the airgraph service extends will be reduced from 8d. to 3d. Air letters, which, unlike the 1s. 3d. air mail, will normally be carried all the way by air, must be written on the special air-letter forms already available at post offices, price 6d., including postage, or on privately manufactured air-letter forms bearing an indication that they have been approved by the Postmaster-General. No other type of form may be used and no enclosure is permitted. Air letters cannot be accepted for registration. There will be no change in the ordinary air-mail service at 1s. 3d. a half-ounce to the countries to which the service extends; ordinary air mails have still to be sent part of the way by sea.

Belfast Chemists' Closing Hours.—Belfast chemists are now closing at the following hours: Mondays and Tuesdays, 7 p.m.; Wednesdays, 1.30 p.m.; Thursdays and Fridays, 7 p.m.; Saturdays, 8 p.m. Most chemists in the district will be in attendance on Wednesdays, 6-7 p.m., and on Sundays, 6-7 p.m., to dispense urgently-required medicines. These new arrangements, which have the approval of the Ministry of Labour, are made necessary by present conditions. A list of chemists who are usually available for dispensing urgently-required medicines, etc., outside these hours may be seen at any police barracks.

Birmingham Retail Distributors.—At meeting in Birmingham on August 16 Midlands Area Council of Retail Distributors was formed from among seventy-five traders and shopkeepers representing twenty-four different trades. Their aim is to weld together every traders' organisation and chamber of trade to give mutual protection and take action against the threat of combines. The chair was taken by Mr. Collingwood Hughes, general secretary of the London Council of Retail Distributors.

Prize for New Product.—Mr. Harry Marland, sixty-six-years-old chief of a Manchester firm of manufacturing chemists, has offered out of his own pocket a prize of £5,000, free of income tax (equal to £10,000 at present tax rates), to any employee, director or consultant of his firm (Griffiths Hughes, Ltd.), or its subsidiary companies, who discovers or originates a new product which, when marketed, produces a net profit of £10,000 in one year. Mr. Marland rose by his own efforts to the head of the £2,500,000 firm which he now controls.

London Pharmaceutical Examination Results.—The following satisfied the Examiners in the Pharmaceutical Chemistry Qualifying examination, in London, July 1944: Broomfield, Jean; Brown, Derek J.; Burrows, Hilda M.; Clark, George H.; Cooper, Frank C.; Creasey, Neville F.; Davies, George E.; Davis, David; Dutton, Thomas E.; Ellery, Kenneth W.; Hancock, Edward F.; Heller, Cecil L.; Lewis, John J.; Owen, John T. R.; Roper, Barbara M.; Snow, Basil C.T.; Turton, Gordon C.

Proposed Standard for Coffee Essences.—The Ministry of Food has under consideration the issue of an Order under Regulation 2 of the Defence (Sale of Food) Regulations 1943, prescribing standards for coffee essences and coffee and chicory essence. The Inter-departmental Committee on Food Standards has made the following recommendations as to the standard: (1) Liquid coffee essences should be required to contain not less than 0.5 per cent. weight in volume of caffeine derived from coffee; (2) Liquid coffee essences should not be permitted to contain vegetable extractives other than extractives derived from coffee; (3) Liquid coffee and chicory essences should be required to contain not less than 0.25 per cent. weight in volume of caffeine derived from coffee; (4) Liquid coffee and chicory essences should not

mitted to contain vegetable extractives other than extractives derived from coffee chicory; (5) In any proceedings in respect of an alleged infringement of the standard for coffee essences or for coffee chicory essences, it should be a defence for the defendant to prove that the essence prepared with not less than 4 lb. of roasted coffee per gallon in the case of coffee essences or 2 lb. per gallon in the case of coffee and chicory essences; (6) It should be made a condition of the grant of a licence under the Coffee Essence (Control) Act, 1942, for the manufacture of a coffee chicory essence, that the product should be prepared with not less than 4 lb. of roasted coffee and chicory per gallon. Any manufacturer or other party desiring to make any comments on these recommendations should send them in writing to the Ministry of Food, Tea and Coffee Branch, Mount Royal, Colwyn Bay, not later than August 31.

Five Years of War.—It is officially announced that it is the desire of His Majesty the King that Sunday, September 3, being the fifth anniversary of the outbreak of war, should be observed as a National Day of Prayer and Dedication.

Merchant Navy Comforts Fund.—A further donation of £25 has been sent to the Merchant Navy Comforts Fund from the War Charities Committee of I.C.I. (Aldershot), Ltd., Northwich, which represents voluntary deductions from the wages of their staff. The donation is used for providing books and games.

Bradford Revisionary Course.—Bradford Branch of the Pharmaceutical Society has contacted the Pharmaceutical Department of Bradford Technical College, who are willing to co-operate in a proposed session of weekly classes as a revisionary pharmaceutical course, planned to meet present pharmaceutical progress and specially with a view to helping the busy practising chemist. Members of the Branch have been circulated to ascertain the number of students likely to be forthcoming. The ordinary winter session of the Branch opens on September 14, when the secretary of the Society (Mr. H. N. Linstead, M.P.) is expected to speak on pharmacy in relation to the National Health Service.

Mayo Resolution.—The following resolution was passed unanimously by the Mayo Pharmaceutical Association at a recent meeting: We, the members of Mayo Pharmaceutical Association, protest vehemently

against the action of certain drug houses in withholding supplies of veterinary preparations from pharmaceutical chemists. We regard this action as an infringement of our professional rights which we wholeheartedly condemn, and promise unyielding support to the P.S.I. and I.D.A. in any action they deem necessary to circumvent it.

Narcotic Control in Europe.—The Permanent Central Opium Board (League of Nations) held its forty-fourth session in London on July 24–27, Sir Atul Chatterjee presiding. Among other members present was Sir Malcolm Delevingne (a member of the Council of the Pharmaceutical Society). The Board reviewed statistical information, together with measures under consideration by the competent authorities for the control of the trade in the manufacture of narcotic drugs in countries likely to be liberated in the near future. It is understood that recommendations put forward recently by the Board have been adopted by the military authorities concerned with Western Europe.

Iodine in Eire.—Research workers carrying out investigations for the Medical Research Council of Ireland into the relation between the prevalence of endemic goitre and iodine intake in food in various parts of Ireland report that in areas in which goitre is prevalent the iodine intake has been found to be very low, while in areas where endemic goitre does not occur the individual intake of iodine per day is high. In co. Tipperary, for example, where the disease is prevalent, the individual intake of iodine per day did not exceed 40 gamma, and was frequently much lower, while in Claremorris, co. Mayo, and Spiddal, co. Galway, where endemic goitre does not occur, the maximum intakes are 120 and 200 gamma per day respectively.

School-leaving Age.—The Ministry of Education states in a circular sent recently to local education authorities that the provisions in the Education Act for raising the school-leaving age to fifteen on April 1, 1945, cannot be carried out because of the impossibility of securing the necessary teachers and accommodation. The Minister will therefore make an Order retaining the school-leaving age at fourteen under that section of the Act which empowers him to defer raising the age until April 1, 1947. The Ministry states that it is not possible at this stage to say how long the Order will remain in force, but local authorities can assume that it will not cease to have effect earlier than April 1, 1946.

TRADE NOTES

Increasing Sales.—The makers of Sero-calcin, Harwoods Laboratories, Ltd., Wat-ford, Herts, notify the trade in their adver-tisement that sales of this product are steadily increasing.

Hospital Rubber Goods Available.—Waterproof hospital and cot sheeting, enemas, rubber tubing, etc., are advertised in this issue by Esco (Rubber), Ltd., 78-80 Stamford Hill, London, N.16.

Closed for Stocktaking.—Matthews & Wilson, Ltd., 6 and 8 Cole Street, London, S.E.1, will be closed for stocktaking from September 1 to 8 inclusive, and during this period only urgent orders will be dealt with.

Cresantol-15 Again Cheaper.—In their advertisement in this issue Monsanto Chemicals, Ltd., Ruabon, advise the trade of a further reduction in the price of Cresantol-15, the germicide for medicinal antiseptic fluids.

Examination Courses.—The Liverpool School of Pharmacy, 2 Blackburne Place, Liverpool, 8, states that the nine months' courses for the Inter. and C. and D. examina-tions will commence in September.

"Kepler" Price Reduction.—Particulars of reductions in prices of "Kepler" cod-liver oil with malt extract and "Kepler" malt extract and the makers' other "Kep-ler" products are published in their adver-tisement in this issue.

Correction.—Potter & Clarke, Ltd., 60-64 Artillery Lane, London, E.1, report an error in their advertisement in the issue of August 19 (p. 21): there are now two sized packs of their slippery elm food—1 lb. and 2 lb.—and not four sizes as stated in the advertisement.

B.D.H. Publications.—The British Drug Houses, Ltd., London, N.1, have recently issued publications on dienæstrol, thiouracil and "Iodatol in Hysterosalpingography." The information given on diseases in which these products are used and the doses re-quired in specific conditions will be found useful. The publication dealing with iodatol, a contrast medium for radiological diagnosis and for iodine treatment in rheumatic con-ditions, is well illustrated by means of x-ray photographs.

Business Change

The new Birmingham telephone number of ORRIDGE & Co., chemists' transfer agents and valuers, is Midland 6547.

TRADE MARKS

(From "The Trade Marks Journal," August

"GOODALL'S"; for water glass (1), saline pre-parations (5), edible oils, dried herbs, et (29), vinegar, spices, etc. (30). By Gooda Backhouse & Co., Ltd., Sovereign Street, Leeds. 624,860-61-62-63 (All Associated).

"VALKEM"; for photographic chemicals, pre-servatives, etc. (1), soaps, perfumes, toi preparations, and dentifrices (3), toi paper (16). By Unichem, Ltd., 219 Upper Tooting Road, London, S.W.17. 625,776, 625,778, 625,784 (All Associated).

"AFFINEX"; for chemical products for use in agriculture and horticulture (other than insecticides, etc.) (1). By Affined Bas Chemicals, Ltd., 42 The Broadway, Ealing, London, W.5. 629,129 (Associated).

"ACTIVERTILE"; for organic fertilisers, and manures (1). By P. L. Millwood, Rop-lar House, Watermill Lane, Fairlight, Sussex. 629,351.

Device of Nurse's Head; for medicated toi paper (5). By Swan Mill Paper Co., Ltd., 92 Regent Street, London, W.1. 625,311 (Associated).

"STANKAP"; for pharmaceutical preparation (5). By Warrick Bros., Ltd., 6 Nile Street, City Road, London, N.1. B626,168.

"KLEONA"; for antiseptics, disinfectant bandages, sanitary towels, etc. (5). By Whitley & Co. (Manchester), Ltd., 7 Cly Road, Manchester. 628,342.

"KILGERNA"; for disinfectants (5). By Bur-ton Rhodes & Co., Ltd., 407 Kilburn High Road, London, N.W.6. 628,456.

"WORMOLAX"; for pharmaceutical prepa-rations for the treatment of worms (human and veterinary) (5). By F. Smith, Ltd., East Prescot Road, Liverpool, 14. B628,721.

"LI-Lo"; for sanitary underclothing, etc. (2) rubber goods (10), (17), (21), (24), (25), (26). By P. B. Cow & Co., Ltd., Factory Square, Streatham Common, London, S.W.13. B628,817-18, 628,820-22-23-24-25. (All Associated).

"STOM ASEPTINE"; for pharmaceutical pre-parations (5). By Stomaseptine Co., Ltd., J. E. Evans-Jackson & Co., 49 Albert Mansions, Kensington Gore, London, S.W. 629,162.

"NUTRIVITE"; for medicated tablets (5). By Thornton & Ross, Ltd., The Chemical Works, Linthwaite, near Huddersfield. 629,174.

"GOODYSAN"; for pharmaceutical prepa-rations for asthma (5). By Ricoman, Ltd., 17 New Oxford Street, London, W.C. 629,179.

"LENILAX"; for laxatives (5). By Gran Laboratories, Ltd., 108 Mortlake Road, Kew, Surrey. 629,348.

"NUJOY"; for babies' napkins (25). By Leburn Mill, Ltd., 82 Princess Street, Man-chester, 1. 629,839.

"SUN JOY"; for soft drinks (32). By V Melville & Son, Ltd., 194 Two Ball Lane, Newcastle-upon-Tyne, 4. 627,602.

TOPICAL REFLECTIONS

Surplus Stores Problems

The question of how Government surplus goods are to be disposed of when the war has come up again (p. 197), almost exactly a year after you wrote a helpful editorial article on the subject (*C. & D.*, 3, II, 221). The experience (there recorded) of the United States Government in selling unwanted stocks after the war 1914-18 is of value for the hints it lends to readers who, without claiming to be experts in marketing, have an average sense of business sense. The general principles enunciated in White Paper No. 6539 are unexceptionable; when, however, the time comes for putting them into practice, difficulties are likely to arise. There is a presumption that when the present hostilities end, the quantities of most of the goods for disposal will be larger than those available in 1919; but estimates of such stocks are likely to be guesswork. An important point raised in your comment is that some of the surplus goods may be destined for export: it is obvious that certain types of merchandise are, in fact, better suited for use abroad than for home sale, and this elementary truth should be borne in mind. So far as surplus drugs and chemicals are concerned, retailers will have a long experience and sound judgment of wholesalers as a bulwark against the possibility of receiving goods that have deteriorated. In the unloading of sundries to the markets there is, I think, a greater risk; and I suggest that circumspection will be needed in buying surplus-toilet preparations and similar goods, either from sample or otherwise. It may be hoped that retailers will consistently decline to stock anything of second-rate, and will let everything justifying that description find its way to market through peddlars' packs.

Botanical Gardens

The announcement that botanical gardens are being laid out near Tashkent in Turstan (p. 191) is of interest: the creation of another link in the chain of centres of systematic botany now extending round the world cannot fail to benefit science. In my remaining space I can only mention some of the principal European botanical gardens. As might have been expected, Italy, the birthplace of the Renaissance, led the way in their formation. The distinction of possessing the oldest of these gardens is generally accorded to Padua, with the foundation date 1545, but Pisa is a claimant

to priority. Henri IV founded the first French botanical gardens at Montpellier in 1593. In 1620 the University of Oxford took steps to establish "a Garden for Physical Simples"; land was purchased in the following year, and the structural part of the premises was completed in 1632. In historical interest the books and herbaria found there are probably unrivalled. The Chelsea Physic Garden was started by the Society of Apothecaries of London in 1673. Early difficulties over its maintenance were solved by the munificence of Sir Hans Sloane. Kew Gardens, the headquarters of experimental botany, date in a sense from 1759, when William Aiton was ordered by Princess Augusta to lay out a physic garden: the establishment was transferred to public ownership in 1840.

A Widespread Desire

In most parts of Europe the desire for the study of living specimens and the collection of herbaria has taken practical shape during the past few centuries. Some outstanding examples in widely separated places may be added. At Upsala, in or about 1655, a botanical garden was laid out by Rudbeck. After a period of stagnation, it was reorganised in 1742 by Linnæus, under whose expert direction the number of plants rose from a few hundred to several thousand. This association with the famous naturalist has given the garden and its buildings a special place among such institutions. Since 1791 the garden of the University of Coimbra, previously functioning on a modest scale, has taken an important position in the scientific life of Portugal: that of Lisbon, dating from 1873, is famed for the beauty of its situation and design. The garden at Naples, founded in 1807, ranks among the leading phytological centres of the world. Henry Groves, a Weymouth chemist who established a pharmacy at Florence in 1862, was for many years in close touch with its directorate; and one hopes that it has been spared the worst manifestations of enemy malignity. Among other cities possessing botanical gardens are Istanbul, where a site was laid out in the early years of the nineteenth century, and Copenhagen, where the first garden, founded in 1778, was replaced on a larger scale in 1874. Pharmacists in search of material for a lecture might do worse than to explore the history of this attractive subject; they will find much of general interest.

Xrayser

COMPANY NEWS

CAMERON PHARMACEUTICALS, LTD. (P.C.).—Capital £5,000. Chemists, druggists, etc. Directors to be appointed. R.O.: Lavender House, Seymour Road, London, E.10.

PROBERTS (CHEMISTS), LTD. (P.C.).—Capital £500. Wholesale or retail chemists, etc. Harry Beck, M.P.S., and Chas. C. Phillips, directors. R.O.: 17 St. Martins Street, London, W.C.2.

LIME DEVELOPMENT, LTD. (P.C.).—Capital £10,000. Manufacturers of and dealers in fertilisers, insecticides, agricultural requisites. A. W. Dean, Blean House, Boughton, Faversham, Kent, director.

E. NELSON (FANCY GOODS), LTD. (P.C.).—Capital £1,000. Manufacturers of and dealers in fancy goods, toilet goods, etc. Eustace Nelson is the first director. R.O.: 6 Broad Street Place, London, E.C.2.

J. W. UNSWORTH & SON (ALTRINCHAM), LTD. (P.C.).—Capital £1,000. Chemists, druggists, etc. George G. Unsworth, M.P.S., and Elsie M. Unsworth, directors. R.O.: 111 George Street, Altrincham, Cheshire.

WOODHEAD & MORRELL, LTD. (P.C.).—Capital £2,000. Manufacturers of and dealers in mineral waters, essences, etc. The first directors are to be appointed. R.O.: 40A Rosse Street, Brownroyd, Bradford.

STEPHEN SMITH & Co., LTD.—Directors' report for the year ended April 30 states that a dividend of 8 per cent. has been paid on the preference shares for the year, after payment of which there remains a balance of £3,073 to be carried forward. The customary payments of pensions and grants have been made during the year from the staff contingency reserve, which now shows a balance of £20,413, no interest having been credited to this account. Mr. Frederick C. Aslin retires by rotation and the directors recommend his re-election.

PHILIP HILL & PARTNERS, LTD.—The directors of Philip Hill Investment Trust, Ltd., and its subsidiary, Philip Hill & Partners, Ltd., announce that Sir Edward M. Mountain, Bt., formerly vice-chairman, has been appointed chairman, and Mr. Hubert A. Meredith, formerly assistant managing director, has been appointed managing director of these companies in the place of the late Mr. Philip E. Hill, who formerly held these offices. The business of the companies will continue to

be carried on as heretofore at Kingsbury House, King Street, St. James's, London S.W.1.

BOOTS PURE DRUG CO., LTD.—At the fifty-sixth annual general meeting of the company held at Beeston, Nottingham, Thursday, August 17, the Right Hon. Lord Trent, chairman, in the course of his speech to the shareholders said: It is sometimes stated that the multiple shops are driving the individual shopkeeper out of business. That this is not so in the chemist's business is shown by the fact that during the twenty years between the wars the number of chemist's shops in this country increased by 5,000, or 50 per cent., according to the most reliable figures available. Obvious what has happened in this case is that more business has been created and the private chemists have been quick to profit by the lessons they have been able to learn from us. I have no hesitation in saying that largely thanks to our example, the public were getting a much better and more complete chemist's service at a lower cost in 1939 than they were in 1919. At the same time we recognise the vital importance of maintaining the highest possible level of employment, and know from experience that we shall get our full share of any increase in the general trade of the country. That is the principle to which we have always adhered, rather than attempting to establish any kind of monopoly. We are alive to the ever-pressing need of research (in all branches of our organisation) and to this end we have added considerably to the personnel of our research staffs, especially in the chemical, bacteriological, and pharmacological laboratories. In our post-war programme we have made provision for extensive developments so that we may continue to expand our research, particularly on problems connected with human and veterinary therapy, and in agricultural fields generally. . . . There is, obviously, little that I can say about the prospects of the company at the present time when so much is in the melting pot. From its very inception our firm has been built upon enterprise that was only interrupted by the restrictions imposed upon us in wartime. We are aware that some of the controls with which we are burdened today must continue after hostilities have ceased in Europe, but if those are progressively removed at the earliest possible moment we have every confidence in the company's powers of rapid recuperation and expansion.

PERSONALITIES

MR. G. D. GUTTERIDGE, works manager, B. Cartwright, Ltd., Rawdon, Leeds, been commissioned 2nd Lieutenant in Pioneer Corps.

MR. BERNARD KEAT MARTIN, one of this year's winners of a Leverhulme scholarship, has been very successful at winning scholarships: In 1933 he won one to Truro School, at which he spent seven years, culminating in his gaining a Higher School certificate. Next followed a three-years' apprenticeship with Boots, Ltd., St. Austell, Cornwall.

In 1943 he was successful in gaining the Nottingham University studentship in pharmacy. Mr. Martin is president of the Pharmaceutical Students' Society and a member of the Union executive of University College, Nottingham. He aims at securing the Pharm. and B.Sc. (chemistry) degrees. Mr. Martin has this week been advised he has been successful in winning a Boots' scholarship.

SIR ALEXANDER FLEMING, Professor of Bacteriology in the University in London and the discoverer of penicillin, gave an address on penicillin to a gathering of about 200 medical practitioners in his native county of Ayrshire on July 29.

WING-COMMANDER MICHAEL T. MAW, R.A.F., a director of S. Maw, Son & Sons, Ltd., has recently been awarded the D.F.C. in addition to service throughout the course of the war, partly spent in Canada and, latterly, on Bomber Operations from this country, he was a pre-war member of the City of London Squadron A.A.F.

MAJOR DESMOND G. C. WHYTE, M.B., B.Ch., second son of Mr. J. M. Whyte, The Laurels, Helens Bay, co. Down, has been mentioned in dispatches. Major Whyte took his medical degree at Queen's University and obtained his commission early in 1940. When at the University he was well known in boxing circles and was a promising blue for several seasons. His elder brother had his commission at the end of 1939, while his younger brother has been in active service with the R.A.F. since 1942.

ALDERMAN W. J. TRISTRAM, president of the Liverpool Chemists' Association, on Thursday, August 17, presided at the opening of a "Healing the Wounded" exhibition now being held in a Liverpool store. He said that during this war 95 per cent. of the wounded had been saved as a result of the great improvements both in skill in surgery and more medical supplies being available. One of the most interesting exhibits is penicillin, which is being shown to visitors in tablet and liquid form. There are also photographs showing how the drug acts on the human body. Members of the A.T.S. and a sergeant of the R.A.M.C. explain to the public the use of various medicines. The exhibition was opened by Major-General G. A. Blake (deputy-director of medical supplies for the North-Western Command) and was well attended.

MR. D. C. E. RAVEN, winner of a Leverhulme scholarship for 1944, served his apprenticeship to

Mr. H. Jarvis Graves, The Strand, Exmouth, commencing in November 1941. He was educated at the Exmouth Grammar School, and has also attended for a period at the University of the South-west. Simultaneously with his studies he has found time to be a member of the Exmouth Junior Operatic Society, taking part in "Merrie England." He is also a medallist in the St. John ambulance movement. Mr. Raven's apprentice-master states: "Douglas has worked hard and enthusiastically, and merits his success. He seems to soak up knowledge like a sponge does liquid."



C. & D. QUIZ NO. 35

1. What was "powder of the post"?
2. What is setwall?
3. What is green copperas?
4. Who devised the name "colloid"?
5. How many lb. of mercury are there in a "bottle"?
6. What B.P.C. preparations contain tea?
7. Who was Mendeléef?
8. What is knob root?

(Answers on p. 234)

MARRIAGE

O'BRIEN—O'REILLY.—At University Church, Dublin, on August 14, Mr. John F. O'Brien, M.P.S., Ph.C., Portadown, son of Mr. Patrick and the late Mrs. Catherine O'Brien, of Loy, Cookstown, co. Tyrone, to Miss Eileen O'Reilly, daughter of Mrs. Brigid and the late Mr. James O'Reilly, Thomas Street, Portadown. The ceremony was performed by the Rev. J. O'Brien, C.M., St. Peter's, Phibsborough (cousin of the groom), assisted by the Rev. A. Curran, O.C.

DEATHS

DOWNING.—At Plymouth, recently, Mrs. Charlotte Downing, wife of Mr. Alfred Downing, M.P.S., 1 Meadfoot Terrace, Plymouth.

RANKIN.—On active service, Pilot-Officer Denis Henderson Rankin, Ph.C., aged twenty-four, third son of Mr. W. J. Rankin, Ph.C., and Mrs. Rankin, Hopefield Avenue, Belfast. Deceased's father is the principal of the firm of Messrs. W. J. Rankin & Son, chemists, formerly of Waring Street, and now carrying on business at Hopefield Avenue. Pilot-Officer Rankin was educated at Royal Belfast Academical Institution. Having served his time in Tate's Medical Hall, Belfast, he qualified as a chemist in December 1942, joining the R.A.F. shortly afterwards. He was trained as a wireless operator and received his commission early this year. He was a keen ornithologist, and prior to the war was Assistant Scoutmaster of the 78th Belfast Group. His eldest brother is Mr. W. Brian Rankin, a partner in the firm of Messrs. Cleaver, Fulton & Rankin, solicitors, Belfast; and another brother is Lieut.-Surgeon Neal Rankin, R.N.V.R.

MR. PHILIP ERNEST HILL died at Windlesham, Surrey, on August 15, at the age of seventy-one, as announced in our last week's issue (p. 190). For many years Mr. Hill, who was a native of South Wales, where he had an auctioneer's office, was a leading London financier. When he came to the City he was quickly recognised as a man who coupled outstanding ability with a flair for selecting the right moment for setting his many and various financial operations in motion. His activities included three distinct lines of business—real estate, patent medicines, and the capital issue market. He was chairman and managing director of Philip Hill & Partners, Ltd., the issuing house, who were associated with some of the largest transactions of

recent years, and put many millions' worth of new issues on the market. Included in his financial deals were a number of big property purchases. He bought Olympia for £2,000,000, a portion of Lord Derby's Bootle and Liverpool estates for £1,750,000, and later on he introduced Woolworth shares to this country. More recently he had been closely connected with the finance of the cinema industry. Among other companies, he was chairman of Beecham Maclean Holdings, Ltd., Enfield Proprietaries, Ltd., Macleans, Ltd., Covent Garden Property Co., Ltd., Scribbans Co., Ltd., and Timothy Whites & Taylor Ltd.; and he was a director of the Armstrong Siddeley Development Co., Ltd., the Hawker Siddeley Aircraft Co., and the Eagle Star Insurance Co., Ltd. In 1934 he married Miss Phyllis Lytton Hill.

WILLS

MR. THOMAS EDWARD HANDFORD, Ph.C., 29 Marlborough Road, Worthing, left £7,034, with net personalty £5,789.

MR. MATTHEW LAXON, Ph.C., Meadow View, Elwyn Road, March, Cambs., left £7,967, with net personalty £2,272.

MR. EDWARD DOHERTY (Edward Doherty & Sons, Ltd., hospital furniture manufacturers) left £22,911, with net personalty £21,069.

MR. HENRY AUGUSTUS WILSON, chemist and druggist, 37 Rosebery Avenue, West Worthing, Sussex (Oppenheimer, Son Co., Ltd.), left £1,883, with net personalty £1,150.

MR. HAROLD WEBB, 125 Wick Hall Hove, Sussex, formerly director of Evans Sons Lescher & Webb, Ltd., Liverpool, left £8,654, with net personalty £8,550.

MR. ANTHONY JOHN LUKE, chemist-merchant, 71 Broad Road, Lower Wellingdon, Eastbourne, Sussex (formerly of Great Tower Street, London, E.C.), left £20,640, with net personalty £18,253.

MR. LEONARD BROWN, Thatched House, Broad Walk, Prestbury, Cheshire, late manager in Cambridge Street, Manchester of Dunlop Rubber Co., Ltd., Birmingham, left £67,465, with net personalty £62,738.

SIR ALWIN ROBINSON DICKINSON, K.C.M.G., Temperley, Saffrons Road, Eastbourne, Sussex (chairman of J. C. & Field, Ltd., a director of Vine Products Ltd., and formerly for many years managing director of the Pacific Phosphate Co.), left £18,525, with net personalty £16,470.

PENICILLIN FOR CIVILIANS

MINISTRY OF HEALTH announces that supplies of penicillin are now available for civilian use. As this quantity is still very limited, special arrangements have been made under which penicillin will be administered only in hospitals, under laboratory control, and used for selected cases of disease. Distribution to civilian hospitals will be undertaken by the medical schools and faculties of universities. The cases of diseases for which penicillin may be used are as follows—

(1) Conditions which should be admitted to hospital if the case is otherwise suitable for treatment with penicillin. *Staphylococcal infections*.—Septicæmia. Early acute osteomyelitis. Severe carbuncle, cavernous sinus thrombosis, or any other life-endangering infection. *Hæmolytic streptococcal, pneumococcal and meningococcal infections*.—Any life-endangering infection (septicæmia, pneumonia, meningitis) which has failed to respond to adequate sulphonamide treatment. *Gastric ulcers*.

(2) Conditions deserving special consideration which may be treated if supplies are sufficient.

- (a) Injuries of the eye and infections of the conjunctiva and cornea.
- (b) Sepsis in wounds and burns.
- (c) Infections of the skin resistant to other forms of treatment (sycosis, impetigo, etc.).
- (d) Sulphonamide-resistant gonorrhœa.
- (e) Acute empyema and pyogenic infections of the pleura as a complication of tuberculosis.

(f) Traumatic lesions, including compound fractures of any bone, extensive muscle injuries, facial injuries, injuries necessitating suture of tendon or nerve, thoracic injuries (hæmothorax), and post-traumatic pneumonias.

If supplies are sufficient, approved departments and hospitals specialising in ophthalmology, neurosurgery, thoracic surgery, burns, etc., may be given a supply of penicillin.

(3) Conditions which will *not* be treated are those caused by organisms not known to be susceptible to penicillin (including rheumatic fever, ulcerative colitis and all other intestinal infections). Bacterial endocarditis and syphilis will also be excluded.

Penicillin cannot yet be supplied for treatment outside hospitals. General practitioners and consultants are being informed of the arrangements through the medical authorities, and when they have a case which is approved for penicillin treatment they will arrange for the patient to be admitted to a suitable hospital.

Until now, apart from a small quantity devoted to clinical trials, all supplies of penicillin in this country have been reserved for the Services and for air-raid casualties. It is expected that next year production will have so increased that enough will be available for all civilian requirements. Meanwhile, when only a limited quantity can be secured, it is necessary to select the cases so that the largest possible number of lives will be saved and waste avoided.

SUNFLOWER SEED OIL

A RURAL industry of a kind new to this country and of interest to the drug trade, is about to be started at Bulstrode Farm, near the village of Chipperfield, Herts. Its raw material will be sunflower seed, which will be turned into a variety of useful products in a modern and well-equipped factory on the farm. Farms in Hertfordshire and the adjacent parts of Buckinghamshire have been growing sunflowers for three years from seed originally imported from Russia, but until this season the main object was to provide more seed for reproduction. In the next week or two the factory wheels will begin turning, and this year's crop will be dried and marketed for the first time. At the moment eight acres of sunflowers are in full bloom. Other farms have raised crops up to ten to twelve acres, making a total of 120 acres this year.

Sunflowers have been a profitable crop in Russia for centuries past, but this Hertfordshire undertaking seems to be the first attempt at commercial production and treatment of the seed in this country on any appreciable scale. The sweet, yellow oil secured by pressing the seed is considered equal to olive oil or almond oil for table use. It is also suitable for margarine manufacture and fish-frying. Among the subsidiary products are food for cattle and poultry and cellulose and potash.

Ministry's Approval

The Ministry of Agriculture has approved the enterprise.

It will not be possible to set up the oil-pressing machinery before next year, and the first crop of seed to be treated will all be converted into poultry food.

The Battle of France.—Thousands of tons of repulped waste paper is being used in this campaign. The supply must be maintained.

THE TITLE "CHEMIST" IN SOUTH AFRICA

JUST as the need for protecting the public against medical quacks gave rise to Acts which regulated the medical profession, so should the public be protected against the many worthless and possibly harmful substances produced by the dangerous combination of the chemical quack and the business adventurer, said Dr. P. Kamerman in his presidential address to the South African Chemical Institute in Johannesburg recently. The Chemical Institute, he said, was fostering a Bill providing for a schedule of firms producing substances of national importance, such as foodstuffs. Such firms would only be permitted to employ fully qualified chemists on their chemico-technical staffs. Dr. Kamerman said that practising chemists objected to the use of the title "chemist" by pharmacists. In reply to this, Mr. Frederick Westbrook, president of the Pharmaceutical Society of the Cape Province, said that chemists and druggists or pharmacists have many claims to the use of the former title. For instance, they are always so called by members of the public, many of whom find it easier to spell and understand than pharmacist. This habit will not easily be changed.

Pharmacists are Chemists

Pharmacists claim that they are chemists, as every registered chemist and druggist must pass examinations in chemistry, which is one of the most important of the many subjects he has to study. Regarding the "worthless and possibly harmful substances" sold to the public, chemists and druggists are strongly in agreement with the need for control by means of legislation. Many of the leading chemists and druggists in South Africa have been pressing for this step. Dr. Kamerman has been succeeded in the post of president of the South African Chemical Institute by Mr. J. E. Worsdale, who is also apparently keen to deprive chemists and druggists of the title "chemist." His statement of the case is that chemistry is that branch of natural science which deals with the composition of substances, the methods used for their determination and the processes whereby these substances are formed under varying conditions. Individuals versed in and qualified to practise the science are chemists. On the other hand, he defines pharmacy as the knowledge of those substances known as the *materia medica*, the art and practice of preparing and compounding these substances for therapeutic use and the sale

of them under licence to the public; individuals versed in and qualified to practise pharmacy are pharmacists. Mr. Worsdale claims that in the training of a pharmacist the elements of chemistry are studied and the application of his calling some of the facts of chemistry are used, but that acquaintance with the science is insufficient to qualify him to practise chemistry. The policy and principal aim of the South African Chemical Institute is to raise the standard of chemistry in South Africa, and in the public interest it is working for official recognition of high standards of qualification. It is said that a Gilbertian position is revealed by the facts that pharmacists are disciplined by a Pharmacists' Board after being trained in a school of pharmacy; they belong to a Pharmaceutical Society, read the pharmaceutical journals, and dispense medicines in a pharmacy after having been granted an apothecary's licence. South African pharmacists do not, however, intend to relinquish the title of chemist, for they believe that their standards are quite as high as those which the Chemical Institute is seeking to establish.

AIR DISINFECTION

AIR-BORNE infection is recognised as one of the main causes of the spreading of infectious fevers and nearly all infections of the air passages, and more than one-third of the total days lost from all causes of disability are due to respiratory diseases. Mudd ("British Medical Journal," July 1, 1940, p. 67) gives an account of the method being evolved for bringing the air of inhabited places to a higher standard of bacteriological purity. Three principal methods of air disinfection are at present used: ultra-violet radiation, dust-suppressive measures, and germicidal vapour. Since it is difficult to disinfect dust-laden air by ultra-violet radiation alone, it was suggested by Andrewes and others in 1940 that the method should be combined with air filtration. Considerations of economy and practicability have caused the germicidal value of hypochlorites and hypochlorous acid to receive a good deal of attention in this country, and here again dust is found to be a serious obstacle to the disinfection of air. The problem of disinfecting air in crowded buildings and public vehicles, where respiratory diseases are so easily acquired, remains unsolved.

EMPIRE AND FOREIGN NEWS

Airgraph Service to Turkey.—The Postmaster-General announces that the airgraph service has been extended to Turkey. The charge is the ordinary civilian airgraph rate.

Shark Liver Oil for Ceylon.—A growing demand for shark liver oil is reported from Ceylon, where it is stated to have almost replaced cod liver oil for nutritional purposes.

Penicillin Flown to Germany.—It is announced that penicillin is being flown to German prison camps to help save British prisoners captured in Normandy and on other fronts.

Newfoundland Cod Liver Oil.—The whole Newfoundland production of cod liver oil in 1943 is stated to have been absorbed. Large orders have already been placed for 1944 output.

Dominica Pharmaceutical Control.—The Dominican Republic has prohibited the sale of all medicines and pharmaceutical specialties until they have been analysed by the National Laboratory and registered with the Secretary for Sanitation and Public Welfare.

Gift to Research.—A gift of \$3,000 for scientific research in medicine, pharmacy and dentistry has been made to the University of Montreal by the wholesale pharmaceutical organisation of La Maison Casgrain-Carbonneau. The money is to be used to provide scholarships.

No State Medicine.—The Hon. Henri Goulet (Minister of Health and Social Welfare in the Quebec Government, and a Montreal pharmacist) gave the medical profession an assurance, at a public meeting recently, that the Canadian Government has no intention of embarking on state medicine.

U.S. Solicits Help Against Cartels.—An appeal to the British Government to join the United States in fighting cartels after the war has been made by the Assistant Attorney-General of the United States Government. Representing that cartels threaten democracy, he asks for Britain's aid in stamping them out.

U.S. Drugs for Middle East.—The Foreign Economic Administration of the United States Government has announced that increased quantities of drugs and pharmaceutical supplies are being sent to the Middle East, as a result of improvements in the supply and shipping situations. Commercial channels will be fully used.

Drug Hoarding in Germany.—The Reich-Apothecary General, in a recent broadcast, warned Germans to refrain from "irresponsible hoarding of drugs." He alleged that there were "careless and inconsiderate egoists" who create artificial shortages by hoarding; if such people could be taught better there would be no abnormal shortage.

Pharmacists Aim at Vitamin Sales Restriction.—In every province in Canada legislation is being sought to confine the sale of vitamin preparations to pharmacies. W. R. Labow (a member of the board of commercial interests of the drug trade) stated recently: We are studying the matter from two angles: first, from the viewpoint of the Canadian Pharmaceutical Association; second, from the point of view of the several provinces. At present the work is along "fact-finding" lines.

American Wounded High Recovery Rate.—Modern mobile surgery and reconditioning treatment are setting unprecedented records for recovery of the United States Army's war wounded, announced the Office of the Surgeon-General recently. Experience to date has shown that fully 96 per cent. of all men wounded on battlefields recover, and of these about two-thirds return to duty. Mobile surgical units carry hospital equipment to the front lines, permitting immediate operations on the battle-ground itself or immediately behind it. Thereafter the utmost speed is used in evacuating casualties to hospitals. There they receive further surgical care. When the convalescent period is reached, the Army's new intensive programme of reconditioning begins. This includes planned, progressive physical exercise to speed the recovery of strength and stamina. Occupational therapy encourages normal habits, and educational therapy mental advancement. With completion of the reconditioning programme, those who have recovered but do not meet the Army's physical standards for general service may remain in the Army in a limited service status or in some cases may return to civilian life. War Department figures for the period from June 25 to July 25 show that 23 per cent. of those discharged from hospitals with serious physical limitations, and who were given the option of discharge from the Army, elected to remain in military service. Casualties returned to civilian life receive continued hospital care as required thereafter, together with opportunity for vocational rehabilitation.

THE RIVIERA, 1944

by J. Bather

No region in Europe combined a greater variety of charms and interests than that which is known by the name of the Riviera, that narrow strip of country from Hyères to the Italian frontier. The snow-crowned Maritime Alps and the rugged Apennines form a mighty wall of defence on the one side, and the blue Mediterranean on the other. It is hard to realise that today French and American troops are virtually occupying a hundred-mile stretch of this coast between Cannes and Marseilles, and to a depth of many miles inland. Fortunately resistance was remarkably slight in most areas, otherwise the inevitable destruction of war must have taken its toll; even so one wonders about towns, such as Cannes, that are still not liberated, and therefore subject to naval bombardment and its consequences. We are accustomed to think of Cannes as purely a modern town; it is, however, in reality a place of great antiquity, although its early history is obscure. Originally it is supposed to have borne the name of Aegitua, and to have been destroyed by the Roman army as a punishment for the murder of some Roman colonists by the inhabitants. Re-peopled, one of the Counts of Provence renamed it Château Franc; later it was renamed Cannes. This typical old Provençal-type town is perched on the top of an isolated rock called Mont Chevalier. The modern visitor unfortunately neglects this ancient part of the town for its more modern parts. Cannes, with its equable climate, received thousands of English visitors each winter, and many chemists had the pleasure of working in this town. The writer remembers a "colony" of ten British chemists working in Cannes during the season, which amply illustrates the importance of the region and its English adoption.

Picturesque Setting

Cannes is bounded on the west by the Esterel Mountains, to the east by the long promontory of Antibes, and to the south by the wide Mediterranean with the picturesque Lérin Islands. Every hill abounds with rich and abundant foliage, strange semi-tropical vegetation such as eucalyptus trees, mimosa, etc. This town, of course, is but one on the Riviera favoured and surely remembered during these troublesome times by many Englishmen, who must often ponder upon what has happened

over there during nearly three years German occupation. To the chemist conjures up thoughts of the region's chemistry, namely, essential oils and perfume compounds, and to what extent war has taken its toll. From information received the cultural regions hitherto employed in jasmine, tuberose, violets, fleur d'orange etc., have been turned over to agriculture purely and simply to provide for the necessities of life so far as possible, a difficult task in a mountainous region deprived of all fertilisers and with soil totally unsuitable for the production of anything but flowers, olives, oranges, and lemons.

Towering Mountains

Unfortunately the coast-line lends itself to easy defence, the mountains towering from almost sea level to a height of many hundreds of feet with such prominent military strategic points as Grasse, Antibes, Roquebrune, Cap Martin, etc., all of which even in pre-war days housed those hard soldiers called the "Blue Devils," or Alpine troops. In fact the forts of Mont Agel and the "tête du chien," situated and towering over Monte Carlo, commanded the whole of the coast-line from Nice to the Italian frontier with their "big" guns.

It will be of interest to many to follow in the wake of our Army through the old Napoleonic route, passing through Provence to the Rhône Valley, as so many have traversed the region; in fact, I very much believe as many Englishmen have passed this way as Frenchmen. And not all of pleasure bent, for there are many Englishmen today who can look back upon the time they both earned and enjoyed a living in these regions. And what would I not give to be back once more in the Basses Alpes or Grasse region at this time (of course under circumstances other than German occupation) to gather and distil the many plants and flowers which in normal times would now be ready for treating. The lavender distillation in peasant fashion is still or was carried on in the same circumstances as existed many years ago with the old copper type alambic. After a day's toil one could sit and full enjoy that very delicious honey, spread upon bread and washed down with the admirable vin rosé. After nearly twenty years in the region it is little wonder that I hold and carry such pleasant memories of our latest battle-front.

INDIAN PHARMACEUTICAL MANUFACTURERS' MEETING

The fourth annual general meeting of the Pharmaceutical and Allied Manufacturers' Distributors' Association was held on June 25 at the Chamber of Commerce, Bombay, Mr. R. A. Haryott in the chair. Placing the annual report for the year ending December 31, 1943, THE PRESIDENT said it had always been the aim of the managing committee to provide members with full day-to-day accounts of what they had done. He referred to the Drug Control Order. Their committee had spent a great deal of time on it, both during its preparation and in frequent contacts with the Department of Industries and Civil Supplies afterwards. They could claim that their opinions and efforts had been of value to the Government, and they had given official recognition of the representative nature of their organisation by inviting members to nominate two members to the Central Drug Control Advisory Committee. The Drug Control Order was only a price control measure, and as such it had been a success. There had been difficulties, but there would be more, but these could be met and overcome provided goodwill was forthcoming. Credit was due to the Secretaries of the Department of Industries and Civil Supplies for the efficient way in which they had so far handled that particular price control measure. It would be some time before it could be said to be working really smoothly. The incoming managing committee would have to be ever so vigilantly if normal trade practices, whenever compatible with the efficient working of the Order in the public interest, were to be safeguarded. In the past they had found in the Department of Industries and Civil Supplies a readiness to appreciate the point of view of the trade.

Relaxation of Import Restrictions

The managing committee had repeatedly pressed the Government for some relaxation of import restrictions whenever the shipping situation should warrant it. It was obvious that if supplies were plentiful price control measures would be redundant. It followed, therefore, that in this country of relatively unorganised retail traders, the nearer the supply approached the demand the more effective price control would be. The officials of the Department of Industries and Civil Supplies had been readily appreciative of the need for increasing the supply of medicines, and during the last few months better supplies had been forthcoming,

especially from the United Kingdom. There was, however, a risk that there might be in the future even more acute shortages of medicines than there had been in the past. To a large extent, in war-time, shortages were caused by hoarding on the part of the consumer. The only way to stop this was by the restoration of confidence, and could only be achieved by seeing that acute shortages should not occur again. The other price control measure introduced during 1943, the Hoarding Prevention and Anti-Profiteering Ordinance, had been criticised as impracticable by almost all Chambers of Commerce and other trade bodies.

He thanked members of the Association for their support and members of the managing committee for their constant help during his year of office. Members should know and appreciate the valuable services rendered by their two nominees, Messrs. Fieth and Choppin, to the Drug Control Advisory Committee. They were busy men but had willingly undertaken the not always convenient trips outside Bombay to attend the meetings. He also thanked Mr. Gwilt, who on more than one occasion had taken up on their behalf in Delhi matters of great importance to them. He took especial pleasure in expressing his personal thanks to their honorary secretary, Mr. K. J. Madon, who was the most hard-worked member of the managing committee. In turn he had been well served by the Association's clerk, Mr. Mathias.

Election of the Managing Committee

THE PRESIDENT explained to the members the reasons why this time a different procedure was adopted for the election of the managing committee. He informed the members that, as several nominations for the various offices and committee were put forward, voting papers for election by ballot as required by Article 77 had been sent round to all members for completion and return. The president then read out the names of candidates who had been proposed and seconded for the various offices and committee. The results of the scrutiny were then handed to the president who declared the results as follows: *Managing Committee for 1944-45: President*, Mr. R. A. Haryott; *Vice-president*, Mr. N. McQueen; *Hon. Secretary*, Mr. K. J. Madon; *Hon. Treasurer*, Mr. H. W. Fieth; *Committee*, Messrs. N. M. Cameron, F. H. Choppin, Luis Corty, G. W. Gosling, S. F. Jarman, A. C. Munro, Dr. T. A. Schinzel.

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CXLII AUGUST 26, 1944 NO. 3368

Fact that goods made of raw materials in short supply owing to war conditions are advertised in this paper or described in its editorial columns should not be taken as an indication that they are necessarily available for export.

Triple Achievement

In this issue (p. 225) we are privileged to publish an authoritative article on D D T—the new synthetic insecticide—recording a third major advance in the battle against disease during the past decade. When, some 15 years ago, the sulphonamides were introduced into medicine, it was soon realised that here at last was a true chemotherapeutic agent capable of exerting a specific effect in a wide variety of conditions. Developments in the formulation of new members of the sulphonamide series soon followed as a result of research, and many thousands of lives have undoubtedly been saved by their use. In 1940 the classic researches of Professor Sir H. W. Florey and his colleagues at Oxford resulted in the establishment of penicillin (discovered earlier by Professor Sir Alexander Fleming) as a proved chemotherapeutic drug, thereby bringing a further group of dangerous pathogenic organisms under almost complete control. Although hitherto reserved for the Services and for air-raid casualties, an announcement from the Ministry of Health this week (p. 217) states that limited supplies of penicillin are now available for certain hospitals for use in selected civilian cases.

Much, however, remains to be accomplished in the chemotherapeutic field, but there is no reason to suppose that the next decade, under the stimulus of increased research, will be any less fruitful of results.

The development of D D T (p. p-dichlorodiphenyl-trichloroethane) represents a different but no less effective method of attack on disease by bringing, not the actual causative organisms, but the insect vectors of disease, under better control. Two serious conditions, typhus and malaria, immediately come to mind in this connexion and it is significant that a threatening outbreak of the former disease, which occurred in Naples during the Italian campaign, was largely minimised by means of the new insecticide. Although not expected completely to replace the older insecticides, such as pyrethrum, for special use (in war-time, however, the synthetic nature of the substance is an advantage) there is little doubt that the introduction of D D T on a large scale will solve many of the problems associated with those diseases that are transmitted by insects in the most effective and economical manner—at the source. Production of D D T, especially in the United States, is expected to reach high figures in the near future, and its value will become increasingly apparent as the war moves towards the more tropical and subtropical regions.

The Cost of Living

In any negotiations that may be initiated for new contracts in the National Health Insurance service or its successor, it is of the first importance that due regard should be paid to the cost of living, estimated from the best data available. The representatives of pharmacy must, in particular, decline to accept as final and conclusive the existing cost-of-living index published by the Ministry of Labour. As long ago as 1921 it was reported (*C. & D.*, 1921, II, 381) that the figures given in that index were being challenged by distributive traders and, independently, by labour organisations. At the present juncture it is desirable to recall the origin and purpose of this much-publicised table of price movements. It was devised in the early

part of the war of 1914-18 in order to show changes in retail prices of foods; other retail prices were soon added, and in 1920 the index was given its present form and title in "The Labour Gazette." A table in that publication, reproduced in our issue of July 3, 1920, showed that average retail prices for the preceding June were 150 per cent. above those of July 1914; and an explanatory note stated: "The result of this calculation (in which the same quantities and, as far as possible, the same qualities of each item are taken in 1920 as in 1914) is to show the increase in the cost of maintaining unchanged the average pre-war standard of living of the working classes. . . ." The figures for the calculation were based, surprising as the fact may now appear, on family budgets for 1904.

Changed Habits

We are willing to believe that the commodities chosen for the studies were fairly representative of the habits of the average working-class family of that day. But, as is pointed out in a useful survey of the subject in "The Times" of August 14, "as time goes on, and the composition, habits, and standard of living of representative families in the community change, a given index becomes progressively less reliable as a measure of changes in the real costs of living of representative households." The case may be put even more strongly; for the question arises: "What do the selected households represent?" It is clear, from the official statement cited, that they represent a defined and limited section of the community. Further, four important items of expenditure—fruit, vegetables, excisable drinks, and tobacco—were disregarded in constructing the index. In the article mentioned, it is noted that food was officially held to account for three-fifths of working-class expenditure, and that items other than food, fuel, rent, and clothing were given a "weight" of only 4 per cent. in the total. In 1921, "The Labour Gazette" stated: "The time is no doubt approaching when it will become desirable that a fresh calculation should be introduced, designed to measure the changes in the cost of maintaining the post-war standard of living. . . ." This cautious approach to an already urgent problem was followed, at an

interval of fifteen years, by the setting of a new inquiry into family budgets. That inquiry, it must be acknowledged, was on a larger scale than that of 1904, the former comprising 1,944 families and the latter effected in 1937-38, 8,105 families. The collated results of the new investigation issued in 1940, showed that considerable changes in working-class expenditure had taken place in the interval (roughly interval of a generation).

Some Consequences

One striking difference between the family budgets of 1904 and those of 1937-38 is that the 4 per cent. "weight" allotted to the "other" items indicated at the outset had become 30 per cent. The writer in "The Times" article estimates that the cost of living has increased by from 32 to 34 per cent. above that of August 1930. As has been suggested, these figures refer in any case to selected working-class families, and must be read in the light of the knowledge. It is appropriate to recall the statement by a former President of the Board of Trade made in the House of Commons on February 26, 1920:—

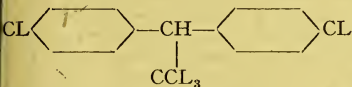
"Examined in some detail, the principal increase is, I think, undoubtedly due to first and most important to the fall in the commodity value of gold; next, to the unavoidable paper inflation, which accounts for 20 or 25 per cent. of the increase; next, to scarcity values; next to the diminished utilisation of capital resulting mainly from labour readjustments . . . ; and, speaking broadly, comparatively slightly to unreasonable individual profit-making. In addition there is some reflection both of heavy taxation and of the prospective high cost of plant maintenance and replacement in the price of products."

The President's later reference to Government control was topical, most of the controls of 1914-18 having by that time been abolished. It is to be hoped that the experience of such abolition accumulated in the months following the Armistice of November 11, 1918, will serve materially to assist in the process of decontrol that must follow the termination of the present hostilities—a process manifestly affecting the cost of living.

DDT: THE NEW SYNTHETIC INSECTICIDE

ote by G. A. Campbell, M.Sc. (Geigy Colour Co., Ltd.), and T. F. West, Ph.D., F.R.I.C.
(Stafford Allen & Sons, Ltd.)

ong ago as 1874 a student preparing a
is made the compound p. p-dichloro-
enyl-trichloroethane (more properly de-
ed as aa'-bis-(parachlorophenyl)-BBB-
loroethane).



is work was forgotten until 1939, when
Swiss firm of J. R. Geigy, A.G., pa-
ed the use of compounds of this class
insecticides. Reports were made in
ss publications during 1939-1942, de-
bing the outstanding insecticidal pro-
pies which the compound possessed, but
as not until 1942 that Geigy brought it
the notice of the British authorities, who
e making strenuous efforts at that time
ind means of replacing pyrethrum and
ris, then in short supply, and which
e used almost exclusively in prepara-
ns for controlling the insects responsible
typhus (lice) and malaria (mosquitoes).
e initial experiments were extremely
mising, the name DDT was coined, and
ms of Government, university and
ustrial chemists and entomologists began
ensive research on all aspects, including
se involved when the use of an organic
compound for external application to
man beings is contemplated. Shortly
erwards collaboration was extended to
rkers in the United States and in the
minions. Meanwhile pilot-plant experi-
nts were undertaken by the Geigy
pany to overcome the difficulties
olved in large-scale production.

The production figure for this country
s not been published, but in the U.S.
0,000 lb. per month is now being manu-
ctured, and it is anticipated that by 1945
s will be stepped up to the colossal figure
1,700,000 lb. monthly. At present the
ole output is reserved for the use of the
med Forces, but small samples are avail-
le for approved tests.

DDT, which can be prepared by con-
nsing chlorobenzene with chloral in the
esence of sulphuric acid monohydrate, is
white solid with a fruity odour. It is
soluble in water but soluble in organic
vents. Perhaps the most remarkable
roperty of DDT is its capacity to become
sorbed on to a surface which then
ains effective against insects for a

prolonged period. For instance, it has been
found possible to impregnate clothing by
treatment with DDT solutions so that they
withstand six to eight launderings and six
to eight weeks' wear before losing their
efficacy against lice. The social implications
of this aspect for peace-time use against
various household pests is too obvious to
require emphasis. For example, one Ameri-
can worker reported that mortality of
bedbugs occurred as long as 104 days in an
infested house after a single application of
a solution containing 10 per cent. of DDT
and 5 per cent. of cyclohexanone in kerosene.
Considerable publicity has been given to
the astonishing result obtained by using a
DDT impregnated powder to arrest the
spread of a typhus epidemic for the first time
in medical history. This took place in
Naples where 1,300,000 individuals were
dusted with a DDT powder during January
this year, and its use undoubtedly saved
thousands of lives. Owing to security
regulations, little has been published on
DDT in this country, but there has been
scientific publication in Switzerland and in
America, and interested readers are advised
to consult the papers mentioned at the end
of this note. There is little doubt that
DDT will have a big part to play in the
future control of horticultural and agri-
cultural pests. In order to give a picture
of the scope and limitation of DDT, the
following summary can be given. In spite
of its unique capacity to kill insects over a
prolonged period, and its stability to light
and air, DDT does not possess the charac-
teristic knockdown action of pyrethrum,
and it is unlikely that pyrethrum insecti-
cides will lose the place for those specialised
purposes for which they proved invaluable
during the last twenty years. On the other
hand, it does appear that with rotenone and
derris, and perhaps other insecticides such
as some arsenic compounds, the position
may be different, but more work will be
necessary before it is possible to predict the
probable repercussions.

References.—An abstract of DDT literature
by the present authors now in the press;
"Journal of Economic Entomology," 1944,
37, 125-159; "Soap," 1943, Nov., pp. 105, 134;
Dec., p. 117; 1944, June, p. 127; "Fruit,"
1944, 5, 218; literature of J. R. Geigy and
reprints of work of Dr. R. Wiesmann, transla-
tions and reprints of which are in preparation;
Long Ashton Annual Report, 1943, p. 62;
B.P., 547, 871; 547, 874.

THE MINERAL RESOURCES OF THE U.S.S.R.

by H. Price, Ph.C.

THE magnificent manner in which the U.S.S.R. has overcome the production difficulties of a major war has excited the admiration of the Allied Nations, and brought the Axis to grief. The principal aim of the Axis in invading Russia was to acquire the vast food and oil resources known to be available; but in common with all other nations the vast potentialities of the U.S.S.R. had been under-estimated by the enemy.

Great Mineral Wealth

This mineral wealth, the extent of which is still not fully appreciated, nor fully explored, promises to raise the U.S.S.R. to the status of a principal Power in the world of chemistry. Under the old régime, a geological committee had been created to map the Russias, but, inadequately financed, it could only carry out its task within the limits of its resources, with the result that at the time of the revolution the geological reserves of that vast area had been no more than sketched in. The leaders of the new régime saw the necessity of thoroughly investigating the resources of their countries and, as the machinery of Government got into its stride, more and more money was earmarked for geological research. By 1936, some 6,000 geologists, part of a complex organisation, financed to the tune of 1,000 million roubles, were actively engaged in this investigation; and by January 1, 1937, 43 per cent. of the total area had been geologically mapped, although subsequent investigations under the stimulus of war have revealed such potential mineral wealth as had hitherto been undreamed of. Most of these new areas lie in parts of the country remote from borders and therefore immune to invasion.

Oil

The vast oilfields of Baku have been known from the sixth century B.C., when the inflammable gases issuing from the ground had given rise to the "eternal fires" around which the cult of fire worship centred. The commercial extraction of oil in that region was begun in 1813, and some idea of the vast quantities of oil available can be gained from the fact that when the Droobja well was sunk in 1883, the pressure behind the oil caused some 100 million gallons to run to waste as a fountain varying in height from 100 to 200 feet over a period of three

months. These oil wells, now the property of the State, have under Soviet control increased their output by 300 per cent. bringing the U.S.S.R. into second place in the world list of oil producers.

The oilfield apparently continues under the Caspian Sea, into the Turkmen S.S. on the eastern shore, and here, as well as the floor of the shallow Sea itself, borings have been successfully made. The western end of the oilfield, centred at Maikop, has been in German hands for over two years but apparently during that time they have not been brought into production again, thoroughly had the then retreating Soviet peoples destroyed them. It was in the Caspian fields that the experts of the U.S.S.R. tried out and adopted a method of extracting a further yield of oil from an otherwise dry well. Under the influence of hot air, high pressures, the residue of oil left in the sandy floor of the strata has been forced to migrate to depressions in the floor from which it had been pumped, part of the oil being recovered as gas, into which the residue had converted it. This fraction is either condensed or used directly for firing the stills.

Further deposits have been discovered in an area between the Ural Mountains and the River Volga, during an investigation to determine the extent of the potash deposits of the Solikamsk area. Under the second "five-year plan," the field has rapidly been developed, and this oil reserve has largely contributed to the Russian military success. That Russian oil production will be greatly extended in the future is certain, the present development being only a fraction of what still remains to be tapped. At present, wells are in operation at Kuibyshev, Kuznetsk, Stavropol, and also at several places on the railway line linking Kuibyshev with Ufa and Chelyabinsk, and further north at Kirov and Molotov. An examination of a geological map of Russia would seem to indicate that the vast area bounded on the north by a line joining Kirov and Sverdlovsk, and on the south by the Caspian's southern shore, and by the Black Sea coast, is potentially oil-bearing ground.

Importance of Coal

Second in importance to oil is coal, and Russia has been mining coal for many years. The rich Donetz basin, which has hitherto been the principal field, is known to al-

majority of Russian needs, however, met by supplies from the field in the Kansk-Basinsk Basin; supplementary fields in the Tunguska area and around Yakutsk have been found, as well as one on the Khatanga Peninsula, in the frozen North. So are these fields that the U.S.S.R. is to become the world's chief coal centre. The deposits are worked by the most up-to-date methods; the galleries are of great height as to permit working in an upright position, and they are electrically-lit; the machinery, patterned on American mining methods, is modern and permits maximum output. The general organisation is in keeping with Soviet standards: a mine has its own underground hospital, a doctor and nurses; each has its baths and sunlight therapy rooms. In some cases where the overburden is too deep, open-cast mining is carried out, the overburden subsequently being removed. Mention has been made in Soviet literature of a still newer mode of utilising coal, that of gasification *in situ*. Apparently, shafts are sunk, and the deposits are burned, when the heat of the burning coal gasifies the surrounding deposits to distill, the products being collected in the usual manner.

The primary deposits of iron ore appear to have been first brought to notice by the establishment of a military outpost at Khatanga. Prospectors from this outpost soon heard of the magnetic hills of the Khatanga and Atach, and in 1747 mining was started by Myasnikov, to whom the Empress Elizabeth Petrovna made a free gift of the entire area. Eventually control was transferred to the firm of Vogan et Cie, who in 1913 mined 50,000 tons of ore by open-pit and shipped it by sled to civilization, for this area was still largely virgin territory.

Under the first "five-year plan," the steel industry was to be rationalised and put far away from possible invasion. It was linked up with the coal of Kuzbas in Central Siberia, both 2,000 miles from a hostile frontier. The city of Magnitogorsk was founded, and here, at a cost of 25 billion rubles, a gigantic metallurgical plant of eight blast furnaces, eight batteries of coke ovens, thirty-six open hearths, and sixteen rolling mills was projected. By the end of the first "five-year plan," it had been 45 per cent. accomplished, no mean feat considering the fact that foreign specialists had to be engaged, and that the majority of the

labour consisted of peasants. Experience was gathered, painfully on the spot, and after hard work these keen and interested workers studied nightly, under most primitive conditions, in the Rabfak (Workers' Faculty) to enable them to gain the knowledge to master the library of 100,000 blue prints which had been accumulated. Fortunately, in that area Nature had been lavish with all the necessary materials. Clay suitable for firebricks, dolomite, limestone, as well as manganese, nickel, and cobalt, were all to hand. The project was not easily accomplished; profiting by early errors, the Soviets have since established similar plants in various parts of the Union, along the Urals, and further eastwards, at Stalinsk, at Krasnoyarsk and Irkutsk. Around these areas have arisen also the Soviets' heavy industries: the tractor plants, the aero-engine works, the car manufacturing—until the U.S.S.R. has become independent of foreign supplies in all the fields of heavy industry.

Other Metals

Aluminium is not wanting in Russia, although the deposits would appear to be low-grade ore. Bauxite is mined 135 miles east of Leningrad, at Sverdlovsk and Solikamsk. In the Kola Peninsula, nepheline is present, and deposits of alunite are found in Transcaucasia; the electrification of the industrial areas has made it a simple matter to apply the Hall process to the manufacture of the metal. Magnesium occurs as carnallite, in the Solikamsk potash deposits, along with large amounts of common salt, and this has been extracted at an average rate of 1½ million tons a year. Manganese is widespread, deposits occurring at Nikopol, in the Dnieper Basin, and also in Georgia, in Kazakhstan, in the Central Urals, and in Krasnoyarsk, in Siberia. Nickel, cobalt and chromium are all found at Sverdlovsk, this city being the world's largest producer of the latter metal. Additional nickel deposits are known at Petsamo, in the Kola Peninsula, and at Norilsk, near Igarka, in Northern Siberia. This area, which has in the past been ignored as too remote, is now being developed and populated, although within the Arctic Circle.

Tin and wolfram occur together, the reserves of the former metal not yet being sufficient to make the country independent of foreign supplies; lead and zinc are produced at Sadon, in the Caucasus, and also in the Altai, in the Kuznetsk Basin and elsewhere. Copper is plentiful, the centre being

at Lake Balkash, in Kazakhstan; but extensive deposits are known to occur in the Central Urals, in Armenia and in Azerbaijan, although the output does not yet make Russia a serious competitor in the copper market. Russia has long been known for her precious metals; platinum, silver and gold being produced. Dredging the river beds for gold has now been introduced, as well as the more formal method of mining as carried out in the famous Lena goldfields. The Trust which is responsible for the gold production has come in for some very severe criticism in recent years because of the sharp fall in production due to alleged inefficiency. This open criticism by the workers is encouraged in the U.S.S.R. and is indulged in openly by the workers, if the occasion should demand this course.

Other Minerals

The deposits of carnallite and common salt have already been mentioned, and, in

addition, Russia can boast an impressive list, including sulphur, asbestos, gypsum, graphite and kaolin, although pride of place must be given to the vast phosphate deposits of the Kola Peninsula. This is of great value to Russia as an agricultural nation, and to make it available a new town, Kirovsk, has arisen. Dr. G. Tyrrell, of the University of Glasgow, writing in "Nature" (February 26, 1937) describes it as one of the industrial wonders of the world.

The list of natural resources of the U.S.S.R. could be prolonged indefinitely but space forbids; nor can any mention be made of the industries which have sprung up to utilise them. In the few short years since the Revolution of 1918, the U.S.S.R. has changed in character and has become self-sufficient in almost every respect. For 160 millions of peoples, varying races, sharing equally in her resources, and looking eagerly to the day when they can return to the task of rebuilding.

EIRE COMMISSION ON VOCATIONAL ORGANISATION

THE long-awaited Report of the Commission on Vocational Organisation, which had been set up in Dublin by the Eire Government in January 1939, has just been released for publication. Amongst other things, the Commission was asked to examine and report on "The practicability of developing functional or vocational organisation in the circumstances of this country (Eire); the means best calculated to promote such development; the rights and powers which should be conferred and the duties which should be imposed on vocational bodies; and the legislative and administrative measures that would be required." The Commission, of which the Most Rev. Dr. Browne, Bishop of Galway, was chairman, heard evidence from a great number and variety of witnesses, including members of the medical, dental, veterinary, pharmaceutical, and nursing professions. Its voluminous Report of some 539 pages, which cost over £10,000 to produce, recommends the creation of a National Vocational Assembly in which the professions, agriculture, industry, commerce, transport, and finance would all be represented. Pharmacy's place in this organisation of the economic life of Eire on vocational lines would be as part of what is styled the Professional Commission.

Public Safety in "Qualification"

On this question of the organisation of

the professions, the Report observes: "The advantages or disadvantages of professional organisation must be considered in relation to (a) the members, (b) the client, and (c) the community. We were impressed by the unanimous contention of professional bodies that, on the whole, it is better for members, clients, and the public that a profession should be organised rather than unorganised. It is obviously better for the public that only qualified persons should be allowed to practise and that the public should be safeguarded from the fraudulent claims of 'quacks.' Organisation has contributed greatly towards raising the level of professional knowledge and has led to the development of the science or technique of the profession. It is also an advantage to the client and community that there should exist a high standard of professional conduct, and that a profession should be regulated or governed by an internal, free, and representative authority rather than by a Government official. Public life also benefits by the fact that the professions have an organisation to express their views on technical or other questions touching the public welfare, and are able to contribute to the promotion of the common good by their advice and service. Professional organisations are a corrective to the development of a bureaucracy which would control all spheres of social life, and which is in danger of ignoring the subtle

developments and needs of professional technique and service, of imposing a mechanical arbitrary regulation, and of being governed by secretly-conceived decisions. They add to the individuality and independence of social life." This expression of opinion by the Commission will be only welcomed by Irish pharmacists, who have been agitating for so long for a Pharmacy Bill which would place them in the position outlined here. On the present very unsatisfactory method of election to the Eire Senate, in which neither of the excellent candidates put forward really by the Pharmaceutical Society of Ireland secured election, the following comment in the Report is of particular interest: "The professions have declared their eagerness to contribute to the common good, but they are most anxious to gain aloof from political party conflict. None of them is satisfied with the present method of electing to Seanad Eireann (the Eire Senate), because it does not give the profession the right of direct election. They declare that each profession would elect its most eminent member for his non-political professional qualities, and that he would regard himself in honour bound to discuss public questions from the technical non-partisan standpoint." Later, it adds: "It is most undesirable that a profession should care to embroil itself in political canvassing."

Professional Conduct

To Irish pharmacists who have been asking that the Pharmaceutical Society should be given greater powers under a new Bill to control ethical conduct in the profession, this paragraph in the Report is of particular interest: "It is obvious that the Legislature should not grant in the name of the people statutory rights and privileges to a profession unless it be organised in such a manner and with such safeguards that it will promote the interests, not merely of the profession as a whole, and of the individual practitioner, but also of the patient and the community in general. While it is undoubtedly in the interests of the people that it be served by professional men who are highly trained and adequately remunerated, the public has also the right to be secured against misconduct and incompetence. This is usually secured by a code of professional ethics. To this, however, there must be added an effective means of enforcing it." On the question of registration of professions, the Report says: "We recommend that registration should

be obtainable without heavy expense, subject to conditions which safeguard the public, and in a form to be devised and approved by an independent professional body, which we shall afterwards describe as the Professional Commission." Recommending that in the scheme of statutory organisation each distinct profession should be governed by a Board which should keep the Register of qualified persons, the Commission says that the Board should be so constituted as to be adequately representative of members of the profession. Each profession must be considered separately and full allowance made for its circumstances and for the need of flexibility and development. "But it should be a general rule that since registration is granted by the people and for the good of the people, as well as of the profession, the Board should contain some representatives of the people. Whether these representatives should be appointed by the Oireachtas (Legislature), by a Minister or by some national vocational body, we do not presume to decide. In some professions it may be found advantageous to give representation on the Board also to one or more closely allied professions." The Report then goes on to say: "The first and principal duty of the Board should be to keep the Register of qualified members. The scheme of organisation should specify in detail the qualifications necessary for admission to the Register and the rights or privileges belonging to registered practitioners. Persons already in practice for a certain number of years should be eligible for registration, but for others the Board should specify the educational or other qualifications required, and it should have power to vary these requirements as scientific or social progress demands. The Board should supervise the education of aspirants to the profession, and should have power to grant or revoke licences to instruct and examine. But it should not have power to alter the rights and privileges inherent in registered status without the approval of the Professional Commission. The Board should also have power to remove names from the Register and to define the offences or misconduct which involves this penalty. It should frame a code of professional ethics and etiquette with proportionate and graduated penalties. It should be the authorised domestic tribunal for the maintenance and enforcement of professional discipline, with the power and duty to try cases of violation of its code, and to inflict penalties on those found guilty." Further on, the

Report continues: "Registered professions which enjoy statutory privileges and autonomy cannot consistently take up the attitude that the ordinary courts provide sufficient redress for complaints of clients against a professional man. The ordinary courts deal only with breaches of the ordinary law. Professions claim to observe a higher standard of ethics, and to give the public a higher degree of protection. The whole purpose of professional organisation is to enforce a standard of professional conduct which is superior to the ordinary law of tort and contract. Further, the claim for professional autonomy rests on the contention that a professional tribunal is more concerned with the honour of the profession, gives more protection to the public, and is more competent to decide complaints quickly and inexpensively than the ordinary courts."

Procedure of Prosecution

The Report, then dealing with the hearing of charges before a professional Board, recommends that prosecutions be entrusted to an independent solicitor or barrister of recognised standing; that investigation of complaints should take place with the minimum of publicity; that a graduated system of penalties for different offences should be applied; and that in case of removal from the Register for a period of more than six months, there should be an appeal to the Professional Commission. As well as being the governing authority of the profession and its members, the Board, it is recommended, should act as the official organ of the profession before the public and the State. On matters which concern the profession alone, it is the body which should have the right to be consulted by the Government or Departments of State. The Board, it is further recommended, should have the right to submit on its own initiative reports on professional matters to the appropriate Minister, and should be consulted before the issue of statutory orders and regulations bearing on such matters. Each professional Board should issue an annual report of its activities, copies of which should be sent to the Professional Commission and to each House of the Legislature. Members of the Board should not receive any salary. The salaries of officers and the cost of administration should be borne by the profession and defrayed from annual fees to be paid by all registered members. The Professional Commission, which would be superior to all separate professional boards, should, ac-

cording to the Report's recommendations be made up of the following elected representatives: one each from the National University and Dublin University; one each from the Hon. Society of Benchers of King's Inn, the Irish Medical Registrars' Council, the Incorporated Law Society of Ireland, the Dental Board, the Pharmaceutical Society of Ireland, the General Nursing Council, the Veterinary Council, the Council of Education; two each from the National Agricultural Commission, the National Industrial Conference, the Trades Union Congress; and four to be nominated by the Government to represent the following professions: Architects, Engineers, Accountants, and Analytical Chemists. The recommendations made for the setting up of a Council of Health, after making provision for four administrative and four medical representatives, it is urged that the following representatives of other professions be appointed by their respective Professional Boards: one Dentist, one Veterinary Surgeon, one Nurse, one Engineer or Architect, one Chemist, and one Pharmacist.

Pharmaceutical Chemists

A paragraph in the body of the Report dealing with pharmaceutical chemists reads: "It is obviously in the public interest that only qualified persons should dispense medicines and dangerous drugs. A series of Acts from the Pharmacy Act (Ireland), 1875, down to the Dangerous Drugs Act, 1934, entrusted the regulation and education of pharmaceutical chemists to the keeping of the register of qualified persons to the Pharmaceutical Society of Ireland. The Society is composed of qualified chemists and is governed by a Council of twenty-one, one-third of whom are elected each year by the general body of members. The Council has no power to remove from the register, but it may report delinquents to the Minister for Justice." In the Appendix giving the names of almost 200 professional and other bodies that gave evidence before the Commission, it is stated that the witnesses for the Pharmaceutical Society of Ireland were Sir T. Robins (then president); Mr. P. C. Cahill (the vice-president), Mr. J. A. O'Rourke, and Mr. Jas. J. Kerr, registrar.

Film Spools.—Amateur photographers who do their own developing are being urged by dealers to return old spools, and the scarcity of these aggravates the already acute shortage of films available for users.

TRADE REPORT

quotations for pharmaceutical chemicals, crude drugs and essential oils represent prices for wholesale quantities of standard quality. C.i.f. quotations do not include the war risk insurance and other abnormal charges payable in the present emergency

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cumulative effect of war conditions, actions, and holidays has made the week a very quiet one in the London and chemical markets. Trade is purely one in character, with the home consuming industries taking what replacement they can get at prices little changed from those given in recent reports. One or two sources report inquiries, but with the general paucity of supplies little actual business appears to result. In PHARMACEUTICAL CHEMICALS, makers and dealers are doing a modest business with no price variations. While a steady consuming business continues in available CRUDE DRUGS, there is little of special interest at the moment: values are generally well maintained. Cape ALOES is not available at present and Curaçao is scarce. BALSAMS of Peru as previously quoted, with TOLU are obtainable. Indian BELLADONNA LEAVES are nominal. BENZOIN continues in good supply, but supplies are not easy to obtain. GUM DAMOMS are neglected. DIGITALIS leaves steady; ERGOT is very firm for shipment and scarce on spot. MENTHOL comes in in good request, but no supplies appear to be available to meet requirements. GINSENG is steady at unchanged prices. A considerable demand is being received for GINGER, and prices are firmly maintained at the rather higher level indicated last week. Activity is lacking in SEEDS, prices which are without quotable change on the week. TRAGACANTH is firm at previously-mentioned rates. Little of interest occurred in ESSENTIAL OILS during the past week. Holders of small stocks of the "cheap" oils are asking substantial prices, but the quantities involved are insignificant. CAMPHOR (STAR) remains in short supply and high prices are being asked for any small remaining lots. PEPPERMINT is also quoted at an exceptionally high figure but here supplies are difficult to find. As in the last week, a new price scale has been issued for "controlled" essential oils for the current year's programme. The Ministry of Food announces that there will be no change in the existing prices of REDUCED OILS and imported EDIBLE ANIMALS allocated to primary wholesalers and large trade users during the eight-week period, August 20-October 14.

Pharmaceutical Chemicals

ASPIRIN.—Demand continues fair, with prices unchanged. Currently quoted rates per lb., in quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 4s. (1-lb.); 3s. 10½d. (4-lb.); 3s. 9½d. (7-lb.); 3s. 9d. (14-lb.); 3s. 8½d. (28-lb.).

BORIC ACID.—B.P. quality is quoted by makers as follows: Granulated, £70 per ton; crystal, £71; powder, £72. Packed in one-cwt. bags, delivered carriage paid in Great Britain in one-ton lots and upwards. Commercial grades, £8 per ton less.

CAFFEINE.—Quantities of 7 lb.—28 lb. are quoted per lb. as follows (supplies subject to D.M.S. approval): ALKALOID B.P., 34s.; CITRATE, 23s.; SODIUM BENZOATE, 23s.; SODIUM SALICYLATE, 23s. 9d. Tins extra when supplied.

CALAMINE, B.P.C.—Steady at 1s. 8d. per lb. for 7-lb. lots, and 1s. 6d. per lb. for 28-lb. lots.

CITRATES.—Makers quote POTASSIUM per lb., in 28-lb.—1 cwt. lots, as follows (containers in brackets): 3s. 3½d. (1-lb.); 3s. 2d. (4-lb.); 3s. 1d. (7-lb.); 3s. 0½d. (14-lb.); 3s. (28-lb.). IRON AND AMMONIUM (SCALES), B.P., is at 3d. per lb. above, and SODIUM is at 1d. per lb. below these prices; POTASSIUM AND SODIUM POWDER, 1d. per lb. extra.

CODEINE.—Makers' prices per oz. are as follows: ALKALOID.—½ oz., 48s. 3d.; 1 oz., 45s. 9d.; 2 oz., 44s. 3d.; 3 oz., 43s. 6d.; 4 oz., 43s. 3d. HYDROCHLORIDE.—½ oz., 42s.; 1 oz., 39s. 6d.; 2 oz., 38s.; 3 oz., 37s. 3d.; 4 oz., 37s. PHOSPHATE.—½ oz., 37s. 9d.; 1 oz., 35s. 3d.; 2 oz., 33s. 9d.; 3 oz., 33s.; 4 oz., 32s. 9d.

CREAM OF TARTAR.—Controlled prices for the smaller quantities are as follows: Less than 7 lb., 2s. 10d. per lb.; 7 lb.—14 lb., 2s. 9½d.; 14 lb.—28 lb., 2s. 9d. For the full schedule, see C. & D., May 20, p. 555.

DEXTROSE.—Current prices per lb., in lots of 28 lb.—1 cwt., are as follows (containers in brackets): 1s. 2½d. (1-lb.); 1s. 1½d. (2-lb.); 1s. 0½d. (4-lb.); 11½d. (7-lb.); 11½d. (14-lb.); 10½d. (28-lb.).

ETHYLMORPHINE.—Quotations per oz. in small quantities remain as follows: ALKALOID.—½ oz., 51s.; 1 oz., 48s. 6d.; 2 oz., 47s.; 3 oz., 46s. 3d.; 4 oz., 46s. HYDROCHLORIDE.—½ oz., 43s.; 1 oz., 40s. 6d.; 2 oz., 39s.; 3 oz., 38s. 3d.; 4 oz., 38s.

HOMATROPINE.—Makers' prices per oz. are as follows (prices per gram in brackets): ALKALOID, 1 oz., 97s. 6d.; 4 oz., 92s. 6d.; 16 oz., 87s. 6d. (6s.). HYDROCHLORIDE, HYDROBROMIDE AND SULPHATE, 1 oz., 75s.; 4 oz., 90s.; 16 oz., 65s. (3s. 2d.).

IODINE PREPARATIONS.—Prices per lb. for the home market are as follows: POTASSIUM

IODIDE, B.P.—112 lb., 9s.; 28 lb., 9s. 6d.; 14 lb., 10s.; 7 lb., 11s. 6d.; 4 lb., 12s.; smaller quantities, 2s. 6d. SODIUM IODIDE, B.P.—28 lb., 9s. 11d.; 14 lb., 10s. 5d.; 7 lb., 12s. 2d.; 4 lb., 12s. 10d.; smaller quantities, 13s. 8d. IODOFORM, B.P.—28 lb., 12s. 10d.; 14 lb., 13s. 4d.; 7 lb., 15s. 6d.; 4 lb., 16s. 4d.; smaller quantities, 17s. 2d. IODOFORM CRYSTALS.—2s. per lb. above powder prices. IODINE RESUBLIMED, B.P.—112 lb., 10s. 4d.; 28 lb., 10s. 10d.; 14 lb., 11s. 4d.; 7 lb., 13s. 1d.; 4 lb., 13s. 9d.; smaller quantities, 14s. 6d.

LACTATES.—Prices are unchanged as follows: LACTIC ACID.—Six-winchester lots, 2s. 10d. per lb.; smaller quantities, 2s. 11d. CALCIUM LACTATE.—Small quantities, 2s. 3d. per lb. CALCIUM SODIUM LACTATE.—Powder, small lots, 3s. 5d. per lb.; 14-lb., 3s. 2d.; 28-lb., 3s.; granular, one penny per lb. extra.

MAGNESIUM CARBONATE, LIGHT.—Makers' home market prices per lb., in quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 1s. 3½d. (1-lb.); 1s. 2d. (4-lb.); 1s. 1d. (7-lb.); 1s. 0½d. (14-lb.); 1s. (28-lb.). Prices net one month.

MAGNESIUM TRISILICATE, B.P.—Home market prices per lb., for quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 3s. 9d. (1-lb.); 3s. 7½d. (4-lb.); 3s. 6½d. (7-lb.); 3s. 6d. (14-lb.); 3s. 5½d. (28-lb.). Prices net one month.

MANDELATES.—Makers' quotations are unchanged. SODIUM AND CALCIUM.—4 oz., 8 oz., and 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb. (in 7-lb. packages), 16s. 9d.; 28 lb. (in 7-lb. packages), 15s. per lb., net. AMMONIUM (50 per cent. solution)—4 oz., 8 oz., and 1 lb., 11s. 9d. per lb.; 4 lb., 10s. 9½d.; 7 lb., 9s. 10d.; 14 lb. (in 7-lb. packages), 8s. 11½d.; 28 lb. (in 7-lb. packages), 7s. 11d. per lb. net. Packages extra and returnable.

MERCURY IODIDES.—The following are makers' prices per lb.: RED, less than 7 lb., 20s. 8d.; not less than 7 lb., 20s. 2d.; not less than 14 lb., 19s. 8d. GREEN, less than 7 lb., 28s. 8d.; not less than 7 lb., 26s. 2d.; not less than 14 lb., 25s. 8d. YELLOW, less than 7 lb., 28s. 1d.; not less than 7 lb., 27s. 7d.; not less than 14 lb., 27s. 1d. net, carriage paid.

PHENOLPHTHALEIN.—No change in makers' prices, as follows: Less than 7 lb., 4s. 6d. per lb.; 7 lb., 4s. 5d.; 14 lb., 4s. 4d.; 28 lb., 4s. 3d.; 1 cwt., 4s. 2d.

PILOCARPINE.—Makers quote at the following rates per oz.: Base, 1 oz., 27s.; 4 oz., 21s. 3d.; 8 oz., 20s. 9d.; 25 oz., 20s. 3d. Nitrate, 1 oz., 18s. 6d.; 4 oz., 18s.; 25 oz., 17s. 6d.

SANTONIN.—Home-trade prices are as follows: 10 kilos and over, £62; not less than 5 kilos, £63; 2-4 kilos, £64; 1 kilo, £65; 500 gm., £66; 250 gm., £67; 100 gm., £68; less than 100 gm., £69 per kilo. Carriage paid in United Kingdom.

TERPINEOL.—The price of pure medicinal quality is steady at from 3s. 3d. to 4s. per lb., for antiseptics of the chloroxylenol type.

VANILLIN.—The agreed prices are unchanged as follows: 5 cwt., 21s. per lb.; 1 cwt., 21s. 3d.; 56 lb., 21s. 6d.; less than 56 lb., 21s. 9d. per lb.

Crude Drugs

ALOE.—Cape is not on offer. Curaçao is scarce on spot with quotation at 500s. per cwt.

ARECA NUTS.—Wormy Ceylon is offered by dealers at 105s. per cwt., ex store.

BALSAMS.—Position and prices unchanged. Peru is quoted on spot at 7s. 9d. per lb., and Canada at 9s. 9d. to 10s.; Tolu and Copaiba are unobtainable.

BELLADONNA.—Indian leaves are nominal on spot at 5s. 3d. per lb.; Indian root of 0.36 per cent. alkaloidal content is offered at 330s. per cwt.

BENZOIN.—A good inquiry continues to be received. Any available supplies of Sumatra would cost about £40 per cwt., and Siam almond block, £45.

CARDAMOMS.—Quiet conditions obtain, with prices unchanged. Aleppy greens, spot, 5s. 6d. per lb.; Aleppy seed, 6s. 6d.; split seed, 5s. 6d.

CHAULMOOGRA.—*Hydnocarpus*, spot, 1s. 6d. per lb., in tins in cases.

CHILLIES.—Offers of Mombasa on spot at 115s. per cwt.

CLOVES.—Sellers of Zanzibar on spot at 1s. 4½d. per lb. No other varieties are offered.

COCOA BUTTER.—The official fixed price of 1s. 5½d. per lb., ex factory or warehouse, is unchanged. Sales above that price may be made under Ministry of Food licence.

COCONUT (DESICCATED).—Controlled price remains at 49s. per cwt.

DIGITALIS LEAVES.—Portuguese leaf is steady on spot at 140s. per cwt., and English-grown leaf at 2s. 6d. per lb.

DRAGON'S BLOOD.—Dull Zanzibar drop in nominal at £25 per cwt.

ERGOT.—Shipment price firm at about 6s. per lb., c.i.f.; any available spot material would be quoted at about 6s. 6d. per lb.

GUM ACACIA.—Spot quotations for Kordofan cleaned sorts are steady at 80s. per cwt. bleached, shipment, 140s. per cwt., c.i.f.; spot 185s. Talha, cleaned, 50s. per cwt., landed.

HENBANE.—Indian leaf is quoted at from 250s. to 275s. per cwt., according to holder. Some material of low test is offered at 1s. per lb.; Russian leaf, 350s. per cwt.

JABORANDI.—May be had at 52s. 6d. per cwt. but available supplies are small.

KAMALA.—Material with 6 per cent. ash would be worth 2s. per lb.

LIQUORICE ROOT.—Russian root for pharmaceutical use is quoted at 85s. per cwt.; single peeled Syrian, in small compass, 110s. per cwt. subject to official approval.

MENTHOL.—In good request but no supplies appear to be available.

MERCURY.—Official quotations range from £68 10s. to £69 15s. per flask, according to conditions and quality, with higher prices for smaller lots and re-distilled grades.

MYRRH.—Small quantities of Aden sorts are quoted at £20 per cwt.

NUTMEGS.—West Indian, wormy and broken, ot, 1s. 5d. per lb.; sound unassorted, 1s. 7½d.
NUX VOMICA.—Cochin quoted on spot at s. 6d. per cwt.; shipment, 35s., c.i.f.; Canada seed, shipment, 32s. 6d. per cwt., c.i.f.
PEPPER.—Maximum prices of whole pepper, picked over or cleaned, on sale to processors, 4d. per lb. for white and 1s. per lb. for black, 1th duty paid.

PIMENTO.—Sellers on spot at 1s. 4d. per lb.

QUASSIA.—Steady on spot at 37s. 6d. to 40s. per cwt., according to quantity.

QUILLAIA BARK.—Crushed or cut, spot, 90s. per cwt.; natural, 75s.; shipment, 65s., c.i.f.

RHUBARB.—Demand continues. Price firm 11s. 6d. to 12s. per lb. for both rough-round and flat high-dried. Shensi irregular shapes, s. per lb.

SEEDS.—Quiet and unchanged. Current rates are as follows: **CORIANDER.**—Indian, 75s. per wt. **CUMIN.**—Maltese, spot, 105s.; Indian, 105s. **DILL.**—125s., ex wharf. **FENNEL.**—Offered at 85s. **FENUGREEK.**—May be had at 85s. **MUSTARD.**—Controlled prices are unchanged.

SENNA.—Alexandrian medium pods are at 1s. per lb.; Tinnevely, manufacturing grade, 1. to 6½d.; hand-picked, 8½d. to 1s.; broken Alexandrian leaves, 1s. 3d. to 1s. 4d.; siftings, 1s. 2d.; Tinnevely, No. 1, 9d. to 10½d.; No. 2, 1. to 7½d.; No. 3, 5½d. to 6d.

SQUILL.—Indian bulb may be had on spot at 60s. per cwt.; Portuguese, 75s.

STRAMONIUM LEAVES.—East Indian leaves are offered on spot at 80s. to 85s. per cwt.

STROPHANTHUS SEED.—Kombé seed, 100 per cent., obtainable on spot at 7s. to 7s. 6d. per lb., according to quantity.

TRAGACANTH.—Prices of the medium grades are unchanged as follows: No. 1, white, £130 per cwt.; No. 2, white, £115; No. 3, white, 100; No. 4, white, £85; pale leaf, £60; amber leaf, £50; dark amber, £40; brown leaf, £30; red-and-brown leaf, £25; red leaf, from £20; oggy, £12 to £15.

TURMERIC.—Madras finger, sound-quality, spot, 57s. 6d. per cwt.

VALERIAN ROOT.—Indian root is quoted on spot at 100s. per cwt.

WAXES.—**BEES'.**—Supplies may be obtained only through members of the Association of Merchant Distributors of Beeswax; official prices are as follows: Crude, 260s. to 290s. per wt.; refined, 315s. to 355s.; bleached, 340s. to 370s.; Calcutta, crude, 250s. to 270s.; Calcutta, bleached, 325s. to 335s. **CARNAUBA.**—Fatty grey, 445s. per cwt., ex store, in minimum one-bag lots; shipment, 390s., c.i.f.; Primeira, 525s. to 540s. per cwt., ex store, nominal; shipment, 475s., c.i.f.; medium yellow, 30s., nominal; chalky grey, 445s., nominal; shipment, 377s. 6d., c.i.f. (c.i.f. prices include per cent. W.R.I.). **CANDELLA.**—Under 1 ton, 220s. per cwt.; 1-5 tons, 217s. 6d.; 5 tons and over, 215s., ex store. **OURICURI.**—Spot, 90s. to 330s. per cwt., as to quality.

Essential and Expressed Oils

ANISE (STAR).—Prices remain nominal at 160s. per lb.

CASTOR.—Official quotation for firsts is £92 per ton, and that for seconds, £90, both naked ex works, in bulk quantities.

CINNAMON.—Leaf oil, if available, would be worth about 13s. 9d. per lb.

CLOVE.—English distillers' quotations are steady at 11s. 6d. to 12s. per lb., according to quantity.

COCONUT.—Bulk quantities of refined deodorised are officially priced at £49 per ton, and refined hardened deodorised at £53.

GROUNDNUT.—Bulk supplies are officially prices as follows: Refined deodorised, £58 per ton; refined hardened deodorised, to 40°, £62; refined hardened deodorised, to 50° to 52°, £63; all naked ex works.

LINSEED.—The official bulk price of crude was recently advanced by £2 per ton to £62 per ton, naked ex works.

NUTMEG.—No change in English distillers' quotations at 35s. per lb., with lower prices for quantities.

PEPPERMINT.—Any available small spot supplies would be worth around 190s. per lb.

RAPESEED.—Official quotation for bulk quantities is steady at £85 per ton, naked ex works.

Controlled Essential Oils.—The Advisory Committee of the Essential Oils Control has announced the following prices which are effective under the 1944 programme. These prices cancel all those previously advised. Other prices will be fixed from time to time:—

Bergamot	23s. 10½d.
Camphor	2s.
Coriander	128s. 10d., plus duty, 11s. 6d.
Fennel	11s. 6d., plus duty, 1s.
Lemon oil, distilled	11s. 9d.
Lemon oil, cold-pressed or Sicilian	17s. 4½d.
Peppermint	37s.
Pine needle	13s. 1d., plus duty, 1s. 1d.
Tangerine	33s.
Vetiver	38s. 4d., plus duty, 3s. 5d.
Wormseed	15s. 3½d.

Purchase tax applies to wormseed oil only and the amount of such tax will form an addition to the price to the user. The price on the sale to a user will be increased by the authorised charges for breaking bulk.

CLOSED ON SATURDAYS.—Advertisers and subscribers are reminded that owing to war conditions the Head Office of THE CHEMIST AND DRUGGIST, 28 Essex Street, London, W.C.2, is closed on Saturdays until further notice. Urgent instructions relating to advertising and subscriptions should be sent to the C. & D., 17 Argyle Street, Bath, Somerset.

MEDICAL ABSTRACTS

Vitamins in Meat Extracts.—Work on riboflavin and nicotinic acid in meat extracts has been carried out by Booth Barton-Wright at the Ministry of Food Service Research Station at St. Albans, acting upon a suggestion by Sir Jack Drummond and Mr. T. Moran, D.Sc. ("Lancet," April 29, p. 565). The authors show beef extracts to be a valuable source of both riboflavin and nicotinic acid, a breakfastcup containing a teaspoonful of the extract in water supplying up to 0.25 mgm. riboflavin and 10 mgm. nicotinic acid.

Acne.—An account of the aetiology, differential diagnosis, treatment and general management of acne vulgaris is given by Ingram in the "Practitioner" (May, p. 304). Regular washing with soap and warm water is essential, but steaming and elaborate procedures are unnecessary. Cotton garments should be worn next the skin, and local applications, when used, should not be greasy, but should absorb the skin secretions: lotio calaminæ is satisfactory. The addition of gr. 10 or more of sulphur to each fl. oz. inhibits the activity of the sebaceous glands and tends to cause a slight scaling reaction, which gradually causes exfoliation of the blackheads and so prevents retention of the secretion. Expression of the blackheads is usually undesirable, as the trauma necessary favours sepsis and abscess formation.

Hyperthyroidism.—The experiments of MacKenzie and McCallum with sulphaguanidine on rats has stimulated work on other organic sulphur compounds in cases of thyroid disease. Over one hundred chemicals have been used in the search for a compound exhibiting high activity with low toxicity. Thiourea was found to be the least toxic of the compounds tried, but 2-thiouracil (a pyrimidine derivative) was more active and had a minimum lethal dose on rats more than one hundred times that required to obtain a detectable thyroid effect. Astwood ("Journal of the American Medical Association," 1943, 122, 78) reports the results of giving doses of 1 to 2 gm. thiourea or 0.2 gm. to 1 gm. of 2-thiouracil. There was a latent period of one to two weeks before any effect on the thyroid gland was evident, and then the effect continued as long as the medicament was given. Unfortunately the hyperthyroidism returned when the treatment was discontinued. The cause of this manifestation of excessive or perverted thyroid activity is

not clearly understood, and the search for a cure is obviously rendered more difficult.

"Cold Vaccines" and the Common Cold.—The search for an effective vaccine against epidemic coryza continues, despite lack of evidence of a noteworthy immunizing following use of the method in actual infection. McGee, Andes, Plume and Hint ("Journal of the American Medical Association," 1944, I, 555) give an account of clinical trials of three oral and two parenteral vaccines upon a group of industrial office workers. They confirm the findings of other workers upon students and military personnel, that there is no clearly evident protection against the common cold or related acute respiratory affections, and conclude that cold vaccines, as at present available, are no answer to the problem.

CORRESPONDENCE

Eire Senate Elections

Sir,—As the Pharmaceutical candidate in the recent Senate Election, we desire to express through your journal our best thanks to pharmacists all over the country for the unstinted efforts they put forward on our behalf. Although pharmacy, like any company with other professional bodies, has failed to secure representation in the new Senate, it is a source of great satisfaction to us to find such a fine spirit of loyalty and cohesion amongst our own members, as the work done on our behalf in the recent campaign proved so well. The many letters we both received and the extensive canvasses carried out indicate clearly that pharmacists as a body here are ready and willing to take united action wherever it is needed in the interests of the profession. We appreciate deeply the widespread support and co-operation we receive from our colleagues, and take this opportunity of expressing our gratitude to all concerned.

PHILIP A. BRADY,
JOHN R. SHANAHAN.

"C. & D." Quiz No. 35.—The answers to the questions on p. 215 are: 1. Sawdust—formerly used as an adulterant of powdered drugs. 2. Valerian. 3. Crude ferrous sulphate. 4. Thomas Graham, Master of the Mint to Queen Victoria, from a Greek word meaning "resembling glue." 5. 75 lb. 6. P. lobel. co. and p. stramon. co. 7. A Russian (Siberian) chemist (1834-1907), professor of chemistry at St. Petersburg University. 8. *Collinsonia canadensis*.

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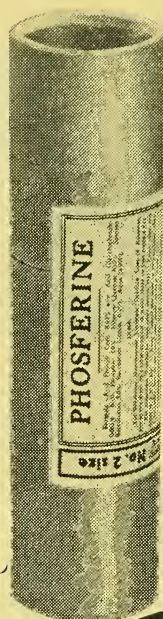
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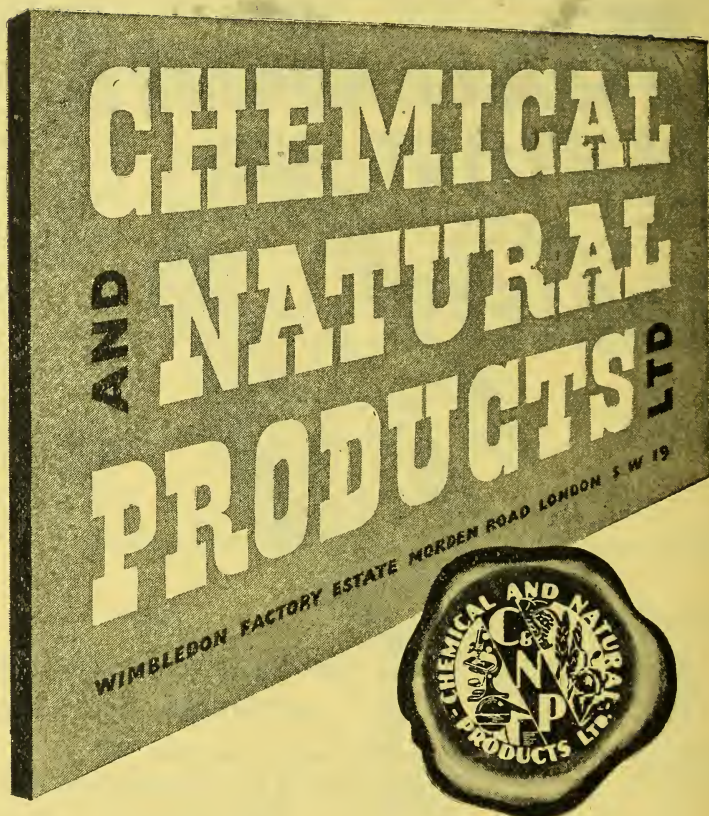
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SECOND Assistant required. Unqualified or Apothecaries Hall, £175 per annum. Particulars to House Governor, Chesterfield and North Derbyshire Royal Hospital, Chesterfield, as soon as possible.

WARREN ROAD HOSPITAL GUILDFORD

ASSISTANT PHARMACIST (temporary) for further duration of war. Salary grade for applicants holding M.P.S. qualification: £250 × £10-£300 p.a. plus war bonus 19s. male, 15s. 6d. female. Salary grade for unregistered Dispenser, £175 × £10-£225 plus war bonus. Apply to Medical Superintendent.

BUSINESSES WANTED

7/7 for 40 words or less, 2d. for every additional word.

HILLIER, PARKER, MAY & ROWDEN, Surveyors and Valuers, 77 Grosvenor Street, W.1, have applications for several sound and progressive single-shop Businesses occupying premier trading positions in London and Provinces, or a Group Concern would be seriously considered. Owners contemplating sale or their solicitors are invited to write for further information to Hillier, Parker, May & Rowden, 77 Grosvenor Street, W.1.

BUSINESSES FOR DISPOSAL

7/6 for 40 words or less, 2d. for every additional word.

DRUG Stores, Surgical Belts. Grand opening for qualified man. Central position. With or without property. Only genuine applicants need apply. W. Goode, 120 Central Drive, Blackpool.

W.13 Old established Business for sale, Excellent position. Room for Optics, Dental or Chiro-pody. A splendid opportunity. All particulars in letter. Near offer £3,500. Reason for sale, health. 576/654, C. & D. London Office.

WANTED*7/6 for 36 words or less, 2d. for every additional word.*

ASPIRIN Powder, Crystals, Grans., and 5-grain tablets, required in large or small quantities. Highest market prices paid. 442/304, C. & D. London Office.

AUTOMATIC Cream Filler wanted at once; big price paid. Shavex Co., 40 Bavaria Road, Holloway, N.19.

BOTTLES and Jars wanted, of any description, from 20 gross to 1,000 gross. Write 576/651, C. & D. London Office.

CHEMICAL Laboratory Equipment, complete or in part, urgently wanted by manufacturing chemists whose premises were destroyed by enemy action. Write 576/635, C. & D., London Office.

REQUIRED up to 2,000 1-gallon Glass Vinegar Jars. Please state price and time of delivery. 576/638, C. & D. London Office.

SOAP Plodder. 10-in. to 12-in. Soap Plodder wanted at once; very good price paid. Shavex Zee-Kol Co., Ltd., 40 Bavaria Road, Upper Holloway, London, N.19.

URGENTLY wanted, 4-oz., 6-oz., 8-oz., 16-oz. Bottles, plain or graduated. Any quantity welcomed. Please write Browning & Hellens, Ltd., Chemists, North Devon Place, Plymouth.

WANTED, 500 to 1,000 gross No. 3 or No. 2 Tablet Bottles with or without screw caps. Quantities of 20 gross upwards equally acceptable. Offers and samples to Bayer Products, Ltd., 272 Colney Hatch Lane, N.11.

WANTED. Bottles, 3-oz., 4-oz., 6-oz., 8-oz. Flats or Bow Panels, white or amber, large or small quantities, preferably screw caps. 575/601, C. & D. London Office.

WANTED, 6-oz. Bottles urgently. Any quantity over 5 gross lots. Box H/12, W. H. Smith & Son, Ltd., Manchester, 3.

WANTED, Microscopes, all models, particularly good outfits up to £300 or £400. High prices, immediate cash. Wallace Heaton, Ltd., 127 New Bond Street, W.1.

WANTED, End-runner Mill, 14 to 56 lb. capacity, for grinding to fine powder. Porcelain pestle and bowl preferred. Full details, price and delivery, to Hough, Haseason & Co., Ltd., Pendleton, Manchester.

WANTED, Oils of Aniseed, Peppermint, Eucalyptus, Cedarwood, Canaga, Citronella, Geranium, Palmarosa, Patchouli, Vetiver, and other oils. Offers of any bulk stocks to Henshaw, M.P.S., 97 Clearmount Road, Weymouth. Tel.: 448.

WE urgently require supplies of bottles, medicals, oval-fronted panels, ribbed back ovals, 4-oz. and 8-oz. White Flint, preferably fitted with screw-neck. A. Ibbetson & Co., Ibcro Works, Stevenage, Herts.

MISCELLANEOUS SALES*12/6 for 60 words or less, 1/- each additional 10 words or less*

ABRACOL G.M.S. 2 cwt. for disposal in one lot or in smaller quantities, minimum 7 lb. Offers invited. Willson's 102 Carr House Road, Doncaster.

CARDBOARD Drums, assorted colours. Complete with Metal Perforated and Sealed Caps. Suitable violet powder, etc. Size 41" x 18". 500 gross for disposal. Samples and price on application. 576/642, C. & D. London Office.

FOR Sale. One drum Paraffin Mollé Flav., B.P. Grade 28, 413 lb. What offers? Grattan's Pharmaceutical Products, 36 High Street, Lurgan, co. Armagh, N.I.

FOR Sale. Single Punch Tableting Machine suitable for hand or power. Write 576/637 C. & D., London Office.

FOR Sale. Chemist's Counter. Mahogany perfect condition. Glazed cupboards front drawers at back. Length 19 ft. Also, similar dispensing counter, length 7 ft. Above are situated a King's Lynn, and can be inspected by arrangement with Heath & Heather, Ltd., Herb Specialists, St Albans, to whom inquiries should be addressed.

ONE Ton White Flake Naphthalene for sale in 1-cwt. bags. 576/639, C. & D. London Office.
SMALL Stocks for disposal: 1-oz. Toilet Bottles 10-oz. Osborne Jars; 2½-oz. Tobins; 2-oz. Squat White Flint Jars. 37 Lewisham Road, London S.E.13.

1½ TONS Sodium Carbonate. Pea Crystals
2 What offers? March & Co., 166 Mitcham Road, London, S.W.17. Phone Streatham 3535.

AGENCIES*7/6 for 36 words or less, 2d. for every additional word.*

FIRE. Well-established Selling Agency with storage and manufacturing facilities covering the whole of Eire, seeking one or two additional lines on commission. Immediate or post-war. Write Box 583, c/o Erwoods, Ltd., 30 Bouverie Street London, E.C.4.

REPRESENTATIVE with established connexion with Wholesale and Retail Chemists, Hairdressers, etc., in London and Home Counties, seek one first-class additional line, preferably one with post-war potentialities. First-class reference 576/658, C. & D. London Office.

SOUTH Africa. Keene & Co., Commonwealth Building, St. George's Street (P.O. Box 2305) Cape Town, South Africa, are desirous of making contact with British manufacturers as Factors Representatives for South Africa and the Rhodesia. Highest references available and really first-class representation assured. Proprietary Medicine Toilet; Household requisites; Hardware and Plastics particularly invited. Further information from Samson Clark & Co., Ltd., 57/61 Mortimer Street, London, W.1; or write direct.

WE are appointing Agents for our products which are applicable to retail chemists and drapers. Will those Agents wishing to carry these contact immediately giving full details in first letter. Some knowledge of the selling of surgical dressings at chemicals essential. CDB/320, C. & D. London Office.

BUSINESS OPPORTUNITIES*7/6 for 40 words or less, 2d. every additional word.*

RETAIL Chemists are invited to co-operate with London manufacturing wholesaler in finding large shop (for light manufacturing) with upper part in an evacuation area within 100 miles radius from London. Full details to 576/636, C. & D. London Office.

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